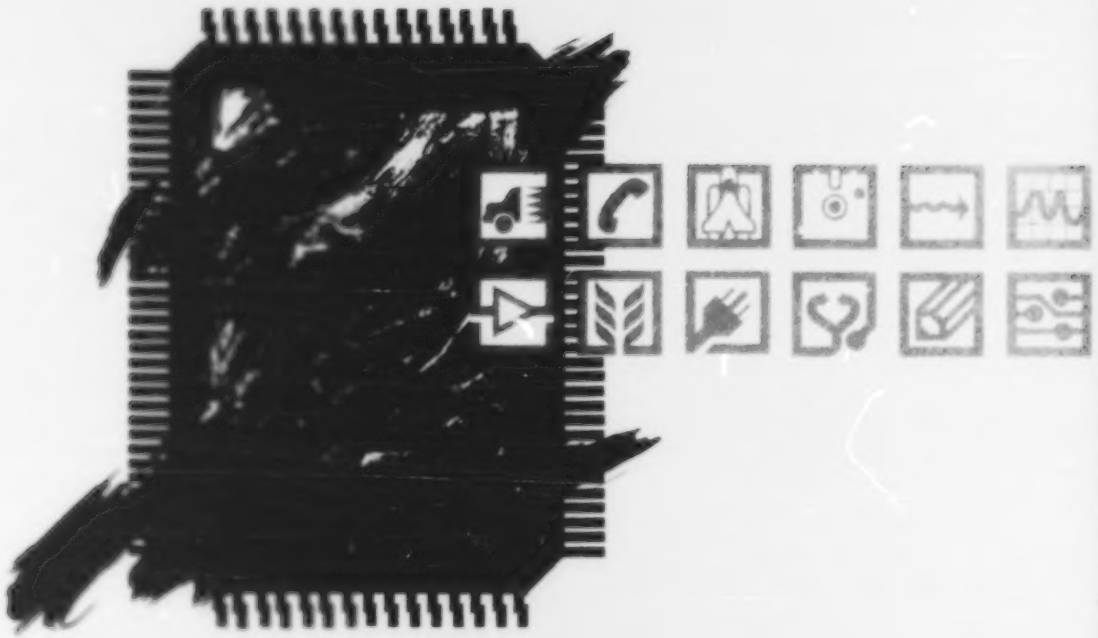
ELECTRONICS & TELECOMMUNICATIONS



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TRANSFORMING OUR WORLD

AGT Limited

The integrated circuit has profoundly changed our world in just one generation. Applications once considered science fiction have become science fact. Electronics and telecommunications have become integral parts of our lifestyle and the way we communicate.

The governments of Alberta and Canada share a common long-range goal — the advancement of electronics and telecommunications technologies. It is a goal which plays an important part in Alberta's economic expansion and diversification strategy. Alberta is rich in the elements essential to electronics and telecommunications industry growth: the productivity required to meet world markets, and the opportunities necessary to successful business achievement.

Behind the scenes, the growing technological demands of these complex industries require the utmost in resourcefulness, initiative and commitment. This publication will introduce you to Alberta's enterprising electronics and telecommunications industries.

NovAtel Communication Ltd.

ELECTRONICS...

Alberta Microelectronic Centre

Electronics Test Centre

Developed to meet domestic demands from the energy, transportation and natural resource industries, Alberta's electronics companies are now expanding into new sectors and global markets. Instrumentation, process control, engineering design, electronic assembly and telecommunications are predominate activities: emerging growth areas include computing equipment, photonics, aerospace and medical electronics. From microchip production to the development of supercomputers, from traditional strengths in industrial process control and instrumentation, the electronics industry is developing technology applications for microelectronic sensors, fibre optics and electro-optic imaging systems.

Electronic instrumentation has made significant inroads in the traditionally-strong petrochemical and utility industries through the use of Supervisory Control and Data Acquisition (SCADA) systems. New developments in optoelectronic research will change the structure of the computer and telecommunications industries.

Harding Instrument Company Ltd.

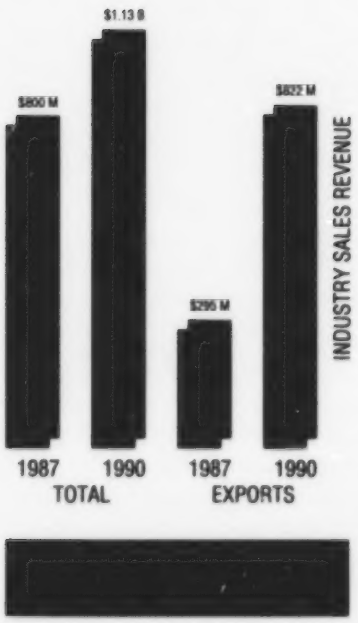
AT THE CUTTING EDGE

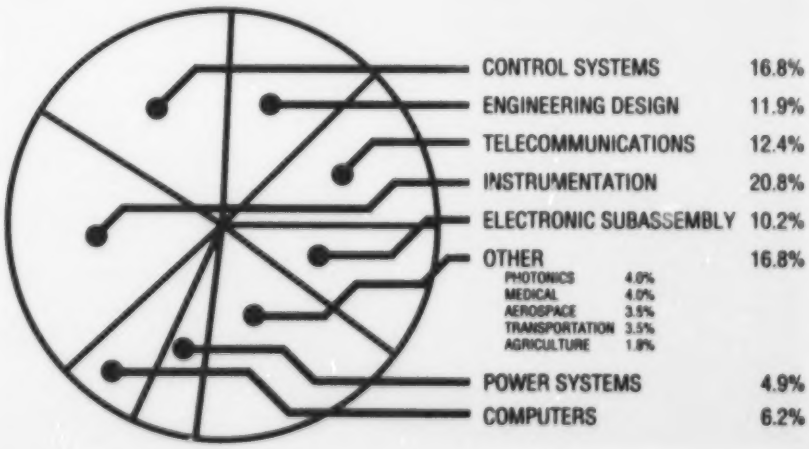
Microelectronics will also have a significant influence in the area of remote sensing and will be of significant benefit to the medical, automotive and process control industries. The development of new imaging technology will play a major role in enhancing the productivity of the forestry and agriculture industries, as well as environmental monitoring.

These activities are supported through government programs, education facilities and by an extensive network of advanced technology centres.

In 1990, the Alberta electronics industry:

- generated more than $1.1 billion in sales
- exported in excess of $800 million in sales
- spent more than $65 million on R&D
- employed more than 7,500 in manufacturing and distribution
- employed nearly 1,000 in R&D
- exported more than 75 per cent of its products and services outside of Alberta





TELECOMMUNICATIONS...

In the diversification of Alberta's resource-based economy, substantial resources have been committed to encourage the development of high technology industries. One of the areas specifically targetted has been telecommunications. Alberta is building on its strengths to promote the research and development, manufacturing and marketing of Alberta communications technology and products.

Northern Telecom

At one time, telecommunications meant little more than telephones. Technological advances in recent decades have changed that. Alberta telecommunications manufacturers have moved to the forefront of technology and produce an increasingly diverse range of products, including cellular phones, wireless systems, terminal equipment, digital switches, remote terminal units for sophisticated electronic monitoring and office information services. Goods manufactured in Alberta are in high demand throughout the world, with nearly 90 per cent of the province's telecommunications products currently exported internationally.

The province's telecommunications carriers are active in ensuring Albertans have access to new technological advances. Each incorporates leading-edge innovations into its networks. A majority of telecommunications services are offered on a competitive basis. The province supports the development of a strong telecommunications industry which is internationally competitive and capitalizes on export opportunities.

EXTENDING OUR BORDERS

Alberta's largest telecommunications carrier, **AGT Limited** is a subsidiary of **TELUS Corporation**, an investor-owned corporation established in 1990. The third largest telecommunications operating company in Canada, AGT provides local, long distance and associate services. Other subsidiaries of TELUS are: AGT Cellular Ltd.; AGT Directory Ltd.; Alta Telecom International Ltd.; Alta Telecom Inc.; and Alta-Can Telecom Inc.

ED TEL is a wholly-owned subsidiary corporation of the City of Edmonton and is the largest independent telecommunications provider in Canada. It provides an integrated range of telecommunications products and services to residential and business customers in Edmonton, as well as consulting and installation services world wide.

In this era of instant communications, radio, television and cable television continue to play an important role in the lives of Albertans. The province is well served by the electronic media with an abundance of radio and television signals available throughout the province. Approximately 78 per cent of Alberta's households having access to cable TV subscribe to the service, one of the highest rates in Canada.

In addition to commercial broadcasting services, Alberta has the provincially-owned and operated educational radio and television network known as **ACCESS NETWORK**, whose services are available to the majority of Albertans.

AGT Limited

NewAtel Communication Ltd.

Alberta Microelectronic Centre

Alberta Microelectronic Centre

A significant part of the growth of the electronics and telecommunications industries in Alberta can be attributed to the establishment of advanced technology institutes. Encouraging interaction among industry, governments and universities, members of the **Electronics Network Association of Alberta** (ENA) provide electronics product testing, engineering, microelectronics, telecommunications, lasers, machine intelligence, robotics, computing, instrumentation and process control plus management and new venture development.

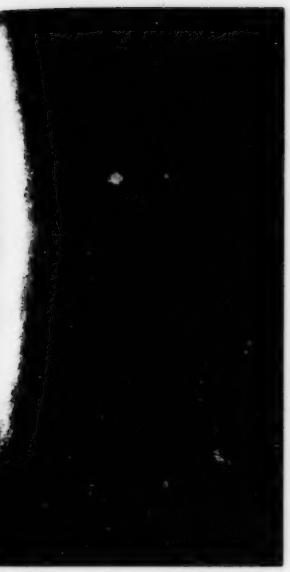
The **Alberta Microelectronic Centre** (AMC) is Canada's first university-based microchip design and fabrication facility. Located on the University of Alberta campus, AMC helps Alberta's rapidly growing electronics industry apply and implement a broad range of technologies. Research activities include integrated circuit design, CAD software development, device physics, integrated microsensor research and micromachining.

AMC's Edmonton Advanced Research Laboratory specializes in materials and device research. LSI Logic Canada works closely with the AMC in developing custom microchips. The AMC's Calgary Design and Engineering Application Facility designs prototypes of custom microchips for industry.

AMC facilities attract multidisciplinary researchers, help graduate students research and complete their thesis work and train engineering, equipment maintenance and operating staff.

Alberta Microelectronic Centre
#118, 11315 - 87 Avenue, Edmonton, Alberta T6G 2C2
(403) 492-3914 Fax: (403) 492-1643

TECHNOLOGY CENTRES



The Alberta Research Council (ARC) is Canada's largest provincial research organization. It provides a full range of services, basic and applied research, analytical laboratories and industrial engineering problem-solving in six major areas: industrial and engineering research, advanced technologies, applied sciences, oil sands, coal and natural resources.

The Alberta Research Council
PO Box 8330, Station F, Edmonton, Alberta T6H 5X2
(403) 450-5111 Fax: (403) 461-2651

The Electronics Test Centre (ETC) is an electronics products testing facility which assists electronic manufacturing companies in improving product designs and worldwide market penetration. Located at the Alberta Research Council's Edmonton headquarters, the ETC is the only electronics testing facility in Western Canada.

The ETC is equipped with sophisticated testing facilities that include a large RF (radio frequency) anechoic chamber, an automated terminal attachment tester, and environmental simulation equipment for temperature, humidity, shock, vibration, wind and rain. This array of modern test equipment, allows client companies to meet a wide range of regulatory certification requirements. The ETC is accredited by the Standards Council of Canada, the Department of National Defence, the Department of Communications Canada and the United States Federal Communications Commission.

Electronics Test Centre
PO Box 8330, Station F, Edmonton, Alberta T5H 5X2
(403) 450-5370 Fax: (403) 461-2651

The LASER Institute is an outgrowth of the University of Alberta's laser engineering program. The first centre in Canada oriented towards industrial application of laser technology, it helps industry develop more cost-effective production technology through the use of laser systems. Emphasis is on materials processing, laser sensing, metrology and machine vision systems.

Electronics Test Centre

The Institute's advanced high-power, laser-based metalworking machinery includes a fully-integrated CAD/CAM 1600 Watt, five axis, CNC-controlled laser workstation. This machinery forms the core of one of the most modern laser materials processing centres in North America.

The LASER Institute
9924 - 45 Avenue, Edmonton, Alberta T6E 5J1
(403) 436-9750 Fax: (403) 437-1240

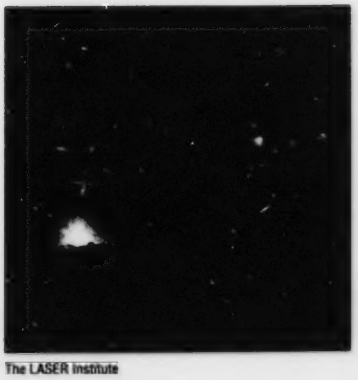
Alberta Microelectronic Centre

Telecommunications Research Laboratories (TR Labs) — formerly the Alberta Telecommunications Research Centre (ATRC) — is a model of infrastructural support. Funded in part by the Alberta government, with support from the universities of Alberta and Calgary, the majority of funding for TR Labs comes from industry sponsors, including Bell Northern Research, AGT, ED TEL, NovAtel, Digital Equipment Corp. and LSI Logic Corp. TR Labs' mandate is to link academic research with private industry. Industrial sponsors can use the products or processes without violating patents, and academics can commercialize their research in a well-funded atmosphere.

At TR Labs, graduate students work on their theses in an industry-driven research environment. Industry representatives work with university faculty members and graduate students in such areas as ISDN, opto-electronics, network engineering, protocols and advanced circuit and software technologies.

TR Labs keeps industry on the cutting edge of telecommunications research in three areas: network systems, photonics and wireless technology.

Telecommunications Research Laboratories
#200, 4245 - 97 Street, Edmonton, Alberta T6E 5Y4
(403) 461-3830 Fax: (403) 463-3010



The LASER Institute

Alberta's electronics and telecommunications companies are also represented by the **Electronics Industry Association of Alberta** (EIAA).

Electronics Industry Association of Alberta
9924 - 45 Avenue, Edmonton, Alberta T6E 5J1
(403) 436-9750 Fax: (403) 437-1240

TALENT AND TRAINING

TR Labs

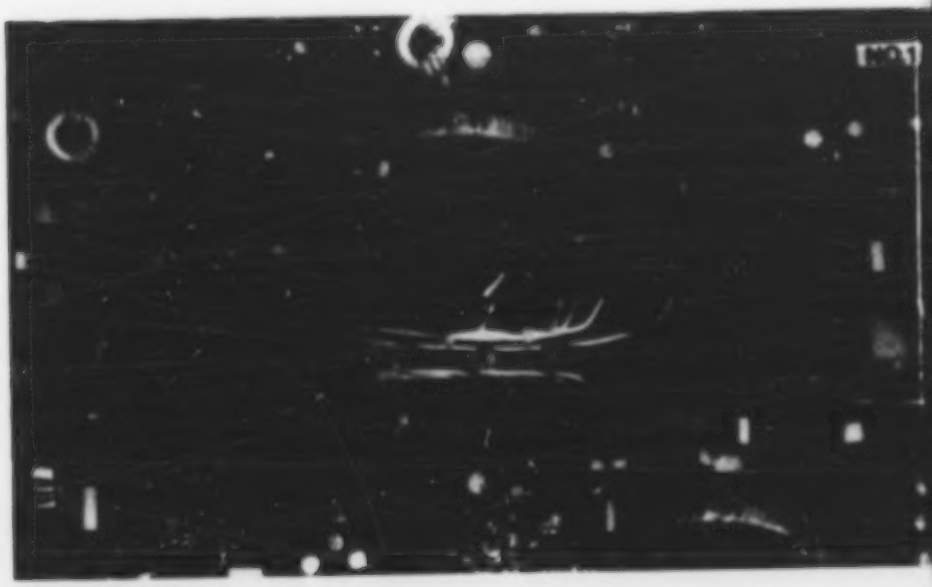
The electronics and telecommunications industries have access to an excellent pool of talent through Alberta's highly-respected universities and a range of technical training schools, colleges and vocational centres.

The **University of Alberta** (U of A) is Canada's second largest university and a pioneer in technology transfer. Affiliated with 21 research centres and institutes, the U of A is widely considered to be one of the country's foremost teaching and research institutions. The creation of industrial research centres for electronics, telecommunications, laser and energy production technology have been accomplished through the activities of, for example, the Departments of Electrical Engineering and Computer Engineering, Alberta Microelectronic Centre, TR Labs, and The LASER Institute. The Intellectual Property and Contracts (IPC) Office helps industry access U of A research.
For more information, contact: (403) 492-5360.

The **University of Calgary's** (U of C) Faculty of Engineering is especially strong in VLSI (Very Large Scale Integration) research, electronic instrumentation and signal processing systems. The faculty's microelectronics research is strongly oriented to industrial and commercial needs, spanning the full range from design through application. The institution's close working relationship with industry has resulted in important research initiatives in satellite navigational systems and digital mapping. The U of C incorporated its technology transfer program into University Technologies International (UTI), a spin-off company established to commercialize university research for a profit.
For more information, contact: (403) 220-5110.

Advanced technology research at the **University of Lethbridge** has an impact on disciplines ranging from agriculture to astrophysics. Exciting developments in infra-red spectrophotometry, detection, recording and analysis have led to major improvements in sensitivity and accuracy of instrumentation with potential applications in industry and medicine.
For more information, contact: (403) 329-2111.

Northern Alberta Institute of Technology (NAIT), in Edmonton, is Canada's largest business and technological training institution. With programs in engineering technologies, including electrical/electronics engineering technologies and telecommunication engineering technology, both the human and physical resources associated with delivering career-oriented education to thousands of men and women are available to business and industry through NAIT's office of Applied Research and Product Development.
For more information, contact: (403) 471-8984.



RTS Electronics Manufacturing

NovAtel Communications Ltd.

Southern Alberta Institute of Technology (SAIT), in Calgary, has approximately 5,500 full-time students, with nearly 2,500 students enrolled in engineering technology programs.
For more information, contact: (403) 284-8110.

Both NAIT and SAIT work with industry to develop and apply new products, systems and technology, and to integrate new technology into industrial applications. Working in conjunction with federal and provincial governments, these institutions develop and deliver training in new technologies and in areas of high employment demand. NAIT and SAIT also offer co-operative ventures with industrial employers to assist students with practical industrial training.

For more information about Alberta's 27 post-secondary educational institutions, contact:

Alberta Advanced Education
Communications Department
10th Floor, Devonian Bldg. East
11160 Jasper Avenue, Edmonton, Alberta T5K 0L3
(403) 427-7160 Fax: (403) 427-4185

LET'S TALK BUSINESS

Investors seeking opportunities in emerging technologies will find in Alberta an extensive system of incentives, both financial and practical.

Alberta Opportunity Company, a crown corporation, offers management and financial assistance in the form of equity, loans or loan guarantees to Alberta small businesses. AOC has also established a Seed Funding Division that will invest up to $250,000 in the development and commercialization of unique or proprietary products. (403) 427-2140 (Edmonton); (403) 297-6437 (Calgary) or 1-800-662-7153.

Alta-Can Telecom Inc., a subsidiary of AGT Limited, invests in private sector ventures in microelectronics and telecommunications. The company also offers assistance in manufacturing goods with international marketing potential. (403) 231-8535 (Calgary).

The Business Line is operated by professional staff who are available to answer general questions on business including financing, marketing, manufacturing and business assistance programs. Operators refer callers requiring additional information to the appropriate government department or business organization. (403) 422-9494 (Edmonton) or 1-800-272-9675.

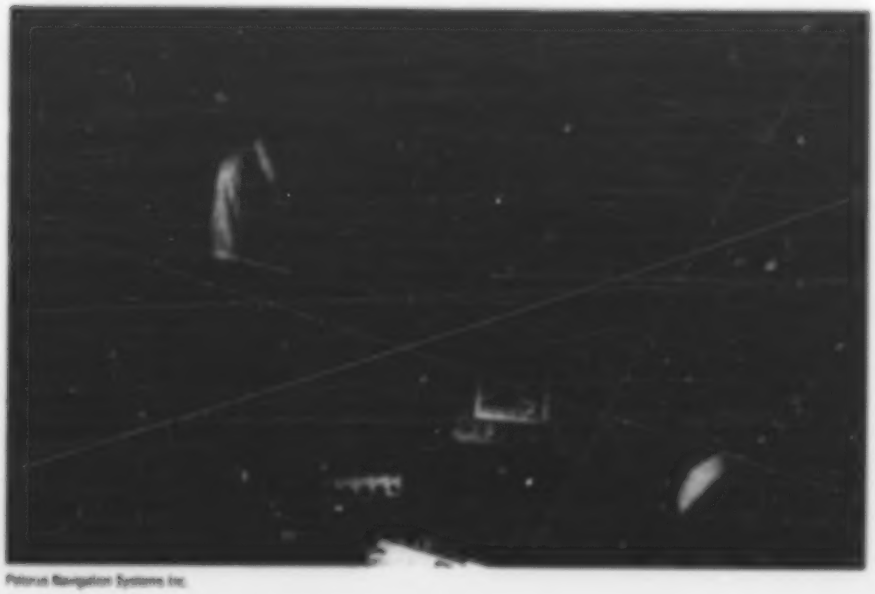
Federal Business Development Bank promotes and assists small and medium-sized businesses in Canada through a number of services. The Bank's Financial Division offers term loans and loan guarantees to finance a variety of projects on flexible terms and conditions, including a choice of fixed or floating interest rates. (403) 495-2277 (Edmonton); (403) 292-5000 (Calgary).

Industrial Research Assistance Program (IRAP) is a National Research Council initiative established to further the awareness and application of technology in Canadian industry in order to promote industry development. Field engineers, called Industrial Technology Advisors, are located at offices throughout the province. (403) 495-6509 (Edmonton); (403) 297-2600 (Calgary).

Industry, Science and Technology Canada promotes and assists the development of advanced microelectronics and information technology systems through its **Microelectronics and Systems Development Program** (MSDP). The **Strategic Technologies Program** is designed to strengthen the capability of industry in information technology, biotechnology and advanced industrial materials. (403) 495-4782 (Edmonton); (403) 292-4575 (Calgary).

Investment Matching Service of Alberta (IMSA) promotes business formation and new investment by bringing together potential investors and Alberta business opportunities by way of a personalized counselling service supplemented by a computerized matching service. (403) 422-9494 (Edmonton).

VisionQuest Inc.



Petorus Navigation Systems Inc.

Wilmington Systems Ltd.

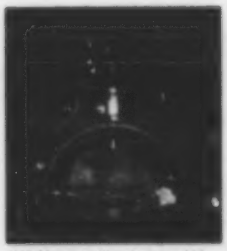
Rawlint Communication Ltd.

Technology Commercialization Program supports the development of Alberta high technology ventures in priority areas such as electronics, biotechnology, computers and software, telecommunications and advanced materials. Assistance is available for projects which demonstrate and assist innovation in technology-intensive fields such as prototype development, feasibility studies, market studies and protection of intellectual property. (403) 422-0567 (Edmonton).

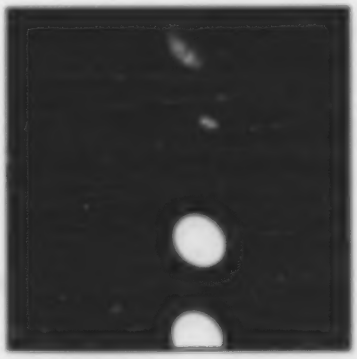
Vencap Equities Ltd. is a publicly-owned venture capital company which provides equity financing to businesses. Investments of any size are considered; currently more than 20 per cent of Vencap's investments are early stage or seed capital. (403) 420-1171 (Edmonton).

Western Diversification Program is designed to assist projects of strategic importance to Western Canada which would otherwise not proceed without support. Program funding is based on a project's individual merits. (403) 495-4164 (Edmonton); (403) 292-5382 (Calgary).

ELECTRONICS & TELECOMMUNICATIONS

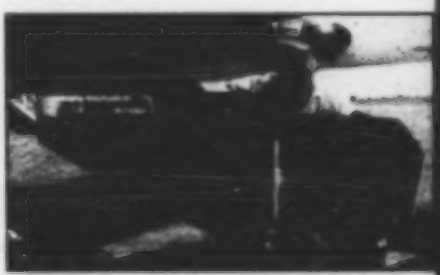


MSR Magneter Manufacturing Ltd

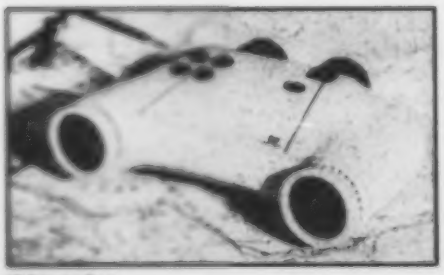


The Alberta electronics and telecommunications industries offer attractive opportunities for investors, entrepreneurs and innovative organizations who want to be part of leading edge technology.

This directory describes companies in the electronics and telecommunications industries in Alberta; the list is by no means exhaustive. Each profile provides a brief description of an enterprising Alberta company within the electronics and telecommunications industries. Please contact any of these firms for more information on their products and expertise.



Intera Information Technologies Corporation



A

A. Comeau & Associates Ltd.

4718 - 90A Avenue
Edmonton, Alberta
T6B 2P9
(403) 465-9961 Fax: (403) 465-4990

Contact: Neil M. McNeil, Director of Marketing

Company Founded: 1976

Products and Services: A. Comeau & Associates has three main areas of operation. The first, electrical and electronic engineering and design services, is responsible for providing engineering services for oilfield and industrial applications. Specialty services of this division include: plant automation and system integration projects, high voltage system design, troubleshooting and design services for custom motor-control system-retrofit applications.

The second division provides custom R&D services for unique software and/or hardware applications. The third division is responsible for the manufacturing of electronic control products for the oil and gas industry including the Keltronics line of submersible pump controllers and remote terminal units, transient filters and the Scanwell oilfield automation system.

Marketing Activities: All engineering services and products are provided in Edmonton and are marketed globally through agents and distributors.

Aaron Controls

#2, 3700 - 19th Street N.E.
Calgary, Alberta
T2E 6V2
(403) 291-3241 Fax: (403) 291-2577

Contact: Paul Roggeman, Marketing and Sales

Company Founded: 1976

Products and Services: Aaron Controls is a design engineering and technical firm providing solutions to air quality, energy consumption and comfort problems. The company's expertise lies in the application of direct digital control for energy management, security and comfort, and the design-building of mechanical robots using state-of-the-art technology which can improve productivity and ergonomics.

Marketing Activities: Products and services are marketed to telephone and electronic manufacturers, mining, oil and gas industries, commercial building trades, industrial firms and government.

Access Technology Inc.

#4, 3700 - 78 Avenue S.W.
Calgary, Alberta
T2C 2L8
(403) 279-0470 Fax: (403) 279-1092

Contact: Edward Mirosh, President

Company Founded: 1977

Products and Services: Access Technology manufactures electronic taximeters under the trademark name Compucab. The Compucab taximeter for North America is now entering a third design evolution with the advent of current microprocessor technology. The newest version of the taximeter incorporates capability for external programming, printer, dispatch interface and display and print of GST separately.

Marketing Activities: Products and services are marketed to individual and fleet operators of taxis in North America. A European version will be marketed following appropriate regulatory approvals.

ADE Electronics Inc.

#124 Points West Building
17220 Stony Plain Road
Edmonton, Alberta
T5S 1K6
(403) 486-3763 Fax: (403) 489-2286

Contact: Richard Domanski, P.Eng.

Company Founded: 1987

Products and Services: ADE Electronics is a specialized analog/digital electronics company oriented to consulting, R&D, production and maintenance. ADE's principal interests include: process control systems, communication and radio controlled systems, upgrading and troubleshooting of industrial and commercial electronic equipment, custom assembly, packaging and production of industrial electronic systems.

AGT Limited

10020 - 100 Street
Edmonton, Alberta
T5J 0N5
(403) 493-6530 Fax: (403) 493-6542

Contact: Don Lowry, President, CEO

Company Founded: 1906

Products and Services: AGT markets local and long distance voice, data and video telecommunication services, telephone terminal equipment and business systems. The company's networks utilize over 80 per cent digital technology and, by 1994, AGT will utilize 100 per cent digital technology to provide universal access to the most advanced telecommunications services in the world.

Voice network services include: 1-800 and WATS; long distance packages such as Between Friends, FaxCom, Advantage and Select Route; voice messaging; custom calling services such as speed calling, 3-way calling and call waiting; and call management services including call display, call return, call screen and call trace. Dedicated data network services encompass iNet 2000, Datapac, Dataroute, Altanet, Megaplan and alarm and telemetering services. Additional services include the Integrated Services Digital Network (ISDN) and dial-up video conferencing.

Marketing Activities: The company markets its products and services throughout Alberta with global connectivity offered through Telecom Canada. AGT Phone Centres and AGT Business Centres provide customers with convenient locations where they may trial and purchase home or office telecommunications terminals and systems.

Airborne Precision Instruments Ltd.

#110, 5621 - 11 Street N.E.
Calgary, Alberta
T2E 6Z7
(403) 275-4211 Fax: (403) 275-8425

Contact: Neil M. Birch, President

Company Founded: 1974

Products and Services: Airborne Precision Instruments performs various types of instrument and avionic installations and repairs. The company has expertise in system design and integration in all sizes of aircraft and specializes in most manufacturers' autopilots. Both dealer and warranty approved by all major manufacturers of avionics and instruments, the company documents all installations with CAD drawings. Airborne Precision Instruments supports a wide range of aircraft and industrial test equipment (torque wrenches, cable tensiometers, multimeters, etc.) using Ministry of Transport approved NIST traceable calibration.

Marketing Activities: The company markets its products and services globally to private, corporate, airline and military customers.

Alberta Computer Cable Inc.

Bay C, 3601 - 21 Street N.E.
Calgary, Alberta
T2E 6T5
(403) 291-5560 Fax: (403) 291-1112

Contact: Bob Kirkby, President

Company Founded: 1985

Products and Services: Alberta Computer Cable manufactures and distributes electronic cable assemblies and connective products for the electronic and computer industries.

Marketing Activities: The company markets its products and services globally to corporations and governments requiring physical and logical connectivity.

Alberta Printed Circuits Ltd.

#14, 3640 - 19 Street N.E.
Calgary, Alberta
T2E 6V2
(403) 250-3406 Fax: (403) 291-9342

Contact: Wayne H. Bamber, President

Company Founded: 1983

Products and Services: Alberta Printed Circuits manufactures printed circuit boards including: single- and double-sided, plated through holes, solder mask, silk-screened component mask and special plating and routering if required. The company also provides photo-plotting, layout and drafting, as well as component stuffing and wave soldering.

Marketing Activities: Products and services are marketed to medical and educational institutions, as well as to the oil and gas sectors and computer industries.

Alltemp Sensors Inc.

9245 - 34A Avenue
Edmonton, Alberta
T6E 5T6
(403) 463-7035 Fax: (403) 462-0017

Contact: David Wannamaker

Company Founded: 1979

Products and Services: Alltemp Sensors manufactures temperature sensors and temperature-related instruments, including thermocouples and resistance temperature detectors (RTDs).

Marketing Activities: The company markets to the industrial petrochemical sector and to the commercial temperature products market, and is involved in the resale of temperature control and indicating electronic instruments across Canada.

Alphatel Systems

Division of Rovell Ent. Ltd.
16814 - 114 Street
Edmonton, Alberta
T5M 3S2
(403) 451-5761 Fax: (403) 455-4060

Contact: Dr. Robert A. Abell

Company Founded: 1981

Products and Services: Alphatel Systems specializes in the custom design of interactive computer-based information, training and directory systems. These systems provide animated, high-impact graphic displays in a full range of colours and combine laser videodisc video and sound. The systems are used primarily for commercial property and museum exhibits, as well as in process control and security systems. The company has extensive experience in telecommunications devices and in the interface of computers to various electromechanical systems. The company is affiliated with Alphatel Computer Products.

Marketing Activities: The products and services are marketed globally to the telecommunications industry, educational organizations and to all levels of government.

Alta Telecom International Ltd. (ATI)

#2400, 411 - 1 Street S.E.
Calgary, Alberta
T2G 4Y5
(403) 530-5656 Fax: (403) 530-5657

Contact: Mr. D. Fraser, Vice President

Company Founded: 1981

Products and Services: Alta Telecom is the international subsidiary of Telus Corporation. The company designs, engineers and supplies custom telecommunications solutions such as software systems, cellular terminals, technical assistance, training and advisory services.

Marketing Activities: The company markets its products and services globally to telephone operating companies, government agencies and private sector organizations.

Alternative Fuel Systems Inc.

#1100, 1122 - 4th Street S.W.
Calgary, Alberta
T2R 1M1
(403) 262-2833 Fax: (403) 237-7441

Contact: Arie M. Van Der Lee, Vice President

Products and Services: Alternative Fuel Systems (AFS) has developed a device which can convert diesel engines to operate automatically on natural gas with a small quantity of diesel for pilot fuel. Using the latest microprocessor and high speed solenoid valve technologies, AFS provides a multi-point, timed-port delivery system which accurately controls the timing and volume of fuel delivered to each individual cylinder, thereby providing optimum engine performance. The system is designed to meet the most stringent emission requirements and offers additional advantages such as savings in fuel and maintenance costs, energy efficiency and reduced maintenance.

Marketing Activities: The company is marketing its products to diesel fleets in countries where natural gas is available and reduction in pollution levels is desired.

AMTEK Testware

Division of Atlantic
Research Canada Inc.
5104 - 82 Avenue
Edmonton, Alberta
T6B 0E6
(403) 466-6953 Fax: (403) 469-1397

Contact: Mr. Laurie E. McClare

Company Founded: 1987

Products and Services: The company provides professional services in automatic test equipment design, development and engineering, with a specific focus on test software development. AMTEK Testware has developed software in a wide variety of languages and environments. An in-house total-quality management program ensures the integrity of the company's deliverables. The company also markets a proprietary software package, the Logistics Analysis and Management System (LAAMS), which is a reliability/maintainability driven Life Cycle Data Management System.

Marketing Activities: Products and services are marketed globally to the military, power utilities and the transportation industry.

Ashton Electronic Industries Ltd.

Box 5361, Station A
Calgary, Alberta
T2H 1X8
(403) 236-7988 Fax: (403) 236-8923

Contact: John Johnson, General Manager

Company Founded: 1974

Products and Services: Ashton Electronic Industries designs and manufactures custom control equipment and systems, specializing in high shock requirements (ie. Class 2A shock mil-spec). Products include control panels for the Canadian Navy and interface products for seismic data collection instruments. The company also sells electrolysis equipment and AC & DC variable speed drives.

Marketing Activities: Products and services are sold to oil and gas, military, and seismic industries.

Athabasca Research Corporation Ltd.

18178 - 102 Avenue
Edmonton, Alberta
T5S 1S7
(403) 489-4444 Fax: (403) 484-6414

Contact: Mr. Gordon Adams, President

Company Founded: 1974

Products and Services: Athabasca Research provides a product commercialization capability for electronic products related to industrial and bio-medical instrumentation. Services are usually provided under the umbrella of joint venture agreements with the primary investigator(s). As part of the overall business development, the company support services include new product planning, business and financial planning, and marketing and manufacturing plan development. Technical R&D include: analog and digital hardware design, microprocessor software, industrial design, product packaging, approvals to Canadian and international standards, production facility setup and short-run production for the initial product launch.

Marketing Activities: The company has successfully launched a number of industrial technologies including off-road vehicle electronic monitoring and control systems, environmental air quality control and monitoring instrumentation and systems, and agricultural equipment and process monitoring. Bio-medical products include laboratory and clinical electronic instruments and electro-mechanical devices.

Aurora Bar Code Technologies Ltd.

#201, 17305 - 109 Avenue
Edmonton, Alberta
T5S 1H7
(403) 483-6025 Fax: (403) 484-8767

Contact: Ian W. Bowden, President

Company Founded: 1987

Products and Services: The company markets both products and services to systems using keyless data-entry technology and portable data-entry systems such as: bar code readers equipped with any contact (wand) or non-contact (laser) input device; off-line portable data entry terminals; portable radio-frequency-linked data entry terminals; shop floor data collection terminals; pre-printed bar code labels, printers, masters, menus, templates, business forms and I.D. cards; OCR (optical character recognition), page and line scanning systems; magnetic stripe readers and encoders; voice input systems; touchscreen and light pen systems; application software; and project contracting.

Marketing Activities: Products and services are marketed to industry, institutions and government.

Austec Electronic Systems Ltd.

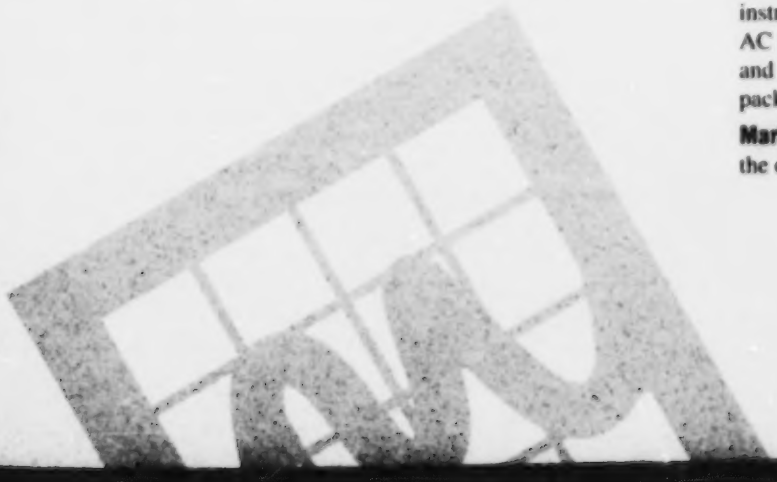
17310 - 107 Avenue
Edmonton, Alberta
T5S 1E9
(403) 486-0511 Fax: (403) 489-3697

Contact: Keith Brockelsby, President

Company Founded: 1987

Products and Services: Austec Electronic Systems provides specialist consulting, design and implementation of automatic electronic identification systems, including both hardware and software, and microwave radio frequency (RF) equipment. A range of products for short range communications based upon microwave RF technology is currently under development.

Marketing Activities: The products and services are marketed globally to government and educational organizations.



B

B & W Technologies Ltd.

#242, 3030 - 3rd Avenue N.E.
Calgary, Alberta
T2A 6T7
(403) 248-9226 Fax: (403) 273-3708

Contact: Mr. Cody Slater, President

Company Founded: 1987

Products and Services: B & W Technologies is an electronics manufacturer which produces gas monitoring equipment. The products cover a broad spectrum, working in harsh environments and operating via line and solar power. Wireless gas monitoring is available which eases installation and improves portability. Personal/handheld products which are miniaturized systems based on application specific integrated circuits are also marketed. Hard-wired gas monitoring is available for plant installations. Gases that are monitored include: Hydrogen Sulphide, Nitric Oxide, Sulfur Dioxide, Nitrogen Dioxide, Carbon Monoxide, Chlorine, Hydrogen Cyanide, Hydrogen, Hydrogen Chloride, LEL Combustible Oxygen. R&D activities are performed by the affiliated company, B & W Research Ltd.

Marketing Activities: Products and services are marketed to the oil and gas, forestry, pulp and paper, mining, transportation and utilities industries.

Babco Electric & Engineering Ltd.

12465 - 153 Street
Edmonton, Alberta
T5Y 1E4
(403) 447-1386 Fax: (403) 447-1309

Contact: George E. Babichuk, President

Company Founded: 1971

Products and Services: Babco Electric & Engineering manufactures electrical enclosures, control and instrumentation panels, low and high voltage switch gears, AC and DC variable speed drives, programmable controllers and solid state starters. The company also has expertise in packaging and integrating complete systems.

Marketing Activities: Products and services are marketed to the oil and gas, pulp and paper, and mining sectors.

Baker Electronic Enterprises Inc.

8522 Davies Road
Edmonton, Alberta
T6E 4Y5
(403) 465-0107 Fax: (403) 465-0130

Contact: Kevin Robertson, Division Manager

Company Founded: 1986

Products and Services: Baker Electronic manufactures a variety of retail and custom electronic products for the agricultural industry. The products include: electronic fencers for livestock and wildlife control, stock prods for livestock handling, sprayer monitors to display operation of field crop sprayers, and shaft and bin monitors for either mobile or stationary equipment. The company has developed considerable experience designing products to survive environments where dust, moisture and vibration are major concerns.

Marketing Activities: The company markets its products throughout Canada and the United States through a distributor-dealer network. Custom designed products are sold direct, primarily to OEMs of agricultural equipment.

Barnett Engineering Ltd.

#215, 7710 - 5th Street S.E.
Calgary, Alberta
T2H 2L9
(403) 255-9544 Fax: (403) 259-2343

Contact: Brian Barnett, President

Company Founded: 1977

Products and Services: Barnett Engineering manufactures voice storage alarm equipment, modems and custom assemblies. The voice storage units provide secure monitoring of alarm conditions at unattended sites by calling out on the telephone or mobile radio and announcing the problem in voice form. Programming of the voice messages, timers, telephone numbers and other operating parameters is done with a standard telephone set. System engineering services are also offered in the areas of microwave, fibre optics, mobile radio and data transmission.

Marketing Activities: The company markets its products to government and to the petroleum, utilities and mining industries.

Bartronics (1972) Ltd.

11613 - 145 Street
Edmonton, Alberta
T5M 1V9
(403) 455-6032 Fax: (403) 452-4530

Contact: Raymond J. Barnes, President

Company Founded: 1972

Products and Services: Bartronics provides custom designed and manufactured communications systems such as a 4-wire switched bridge that controls radio-trunking equipment and mobile alarm displays for mobile trunking equipment.

Marketing Activities: The company markets its products and services primarily to utility companies.

Batler Micro Systems Ltd.

9504 - 63 Avenue
Edmonton, Alberta
T6E 0G4
(403) 436-5773

Contact: Mr. Herb Tabler, President

Company Founded: 1979

Products and Services: Batler Micro Systems designs, manufactures and installs electronic control systems on equipment used by the handicapped and in the oil and steel industries.

Marketing Activities: The company markets its products and services primarily to the United States.

BatteryPRO Centres Inc.

PO Box 160
203 - 1 Avenue N.W.
Black Diamond, Alberta
T0L 0H0
(403) 933-5393 Fax: (403) 933-3233
1-800-661-9401 (North America)

Contact: F.O. Holemans, President

Company Founded: 1978

Products and Services: BatteryPRO Centres has developed the microprocessor controlled RAMSystem which processes rechargeable batteries, primarily Ni-Cad. The RAMSystem can process up to 260 different types of batteries simultaneously and can rejuvenate batteries which would otherwise be discarded. The life of these batteries can be extended by approximately three times. Batteries can be bar coded and with use of the bar code reader, the RAMSystem can identify each one and process accordingly. A historical database of all batteries processed can be created by downloading data from machines using RAMSystem software enabling precise battery performance history readouts and inventory controls.

Marketing Activities: The BatteryPRO RAMSystem is marketed to government and to communication, utility, airline, emergency services and industrial sectors.

Bentek Corporation

#221, 339 - 50 Avenue S.E.
Calgary, Alberta
T2G 2B3
(403) 255-6969 Fax: (403) 258-0996

Contact: Mark Benza, President

Company Founded: 1981

Products and Services: Bentek is a multi-disciplinary technology and product development laboratory which develops products related to electromedical, electronic, mechanical, biochemical and chemical engineering. The company provides consultation during development, design, tooling, manufacturing and testing procedures, in addition to performing start-up and on-going manufacturing.

Marketing Activities: Bentek markets its products and services worldwide.

Bertonee Marketing Inc.

1827 - 54 Street S.E.
Calgary, Alberta
T2B 1N5
(403) 569-1500 Fax: (403) 235-3339

Contact: Tom Lambourne, President

Company Founded: 1989

Products and Services: Bertonee Marketing manufactures the "Neon Power System" line of neon transformers. These utilize proprietary animation technology which can produce such effects as scripting, flashing, dimming and constant burn. From the miniature 12 volt family that illuminates short lengths of neon, to the fully programmable 120 volt unit capable of driving 60 feet, applications range from neon posters and novelty items, to point-of-purchase and commercial signage.

The company is also engaged in the development of electronic dimmable fluorescent ballasts which provide energy efficient, reliable lighting at substantially lower cost.

Marketing Activities: Products are marketed direct to end users such as outdoor display and point of purchase advertisers, lighting and sign manufacturers, and electrical products distributors.

Beta Monitors & Controls Ltd.

#200, 1615 - 10 Avenue S.W.
Calgary, Alberta
T3C 0J7
(403) 245-5300 Fax: (403) 244-7262

Contact: R. N. Wood, General Manager

Company Founded: 1979

Products and Services: The company designs and manufactures predictive maintenance instrumentation and associated software used in various industries. The BETA-TRAP™ measures peak firing pressure in power cylinders and guides the mechanic in balancing the engine for optimum performance; the DATA-TRAP™ collects vibration and processes data from rotating equipment then sends it to a personal computer for analysis; the RECIP-TRAP™ offers performance and condition monitoring for reciprocating equipment. Preliminary analysis is performed by the computer, to allow the analyst to concentrate on problems. MHealth and the associated Micro-Trap replace log sheets and perform sophisticated trending and analysis on logged and calculated parameters.

Marketing Activities: The company markets its products to oil, gas and petrochemical industries, gas transmission, pulp and paper, and power generation companies.

Biomech Designs Ltd.

7955 - 98 Avenue
Edmonton, Alberta
T6A 0B5
(403) 469-3484 Fax: (403) 492-1617

Contact: Kelly James, President

Company Founded: 1982

Products and Services: Biomech Designs offers professional electrical, mechanical, computing and rehabilitation engineering consulting services. The company manufacturers neuromuscular stimulators, muscle-testing equipment and other rehabilitation equipment. As an OEM, its capabilities allow conceptual ideas to become finished products. Computing hardware and software challenges are also addressed.

Marketing Activities: Services are marketed to research institutions and corporations with OEM requirements throughout North America.

Boreal Laser Inc.

10328 - 133 Street
Edmonton, Alberta
T5N 1Z9
(403) 451-0710 Fax: (403) 454-2099

Contact: Jack Ondrack, President

Company Founded: 1990

Products and Services: Boreal Laser develops and manufactures small, powerful carbon-dioxide lasers for industrial, medical, aerospace and scientific applications. Its employees are skilled and experienced in laser research, development and manufacturing.

Marketing Activities: Boreal plans world-wide sales through other manufacturers and distributors. Current clients include the Government of Canada and medical device manufacturers.

B.R.E.M. Consulting Services Ltd.

#1707, 12303 Jasper Avenue
Edmonton, Alberta
T5N 3K7
(403) 482-6649 Fax: (403) 488-1033

Contact: Mr. J. C. Brunel, President

Company Founded: 1988

Products and Services: B.R.E.M. Consulting Services provides consultation for planning and set-up of electron microscope laboratories. In partnership with Precitem Inc. (Montreal), the company provides design and manufacture of custom-made, computer-controlled positioning and micropositioning systems.

Marketing Activities: Products and services are marketed to hospitals, R&D laboratories, universities and the laser and electronics industries.

Bruel & Kjaer Canada Ltd.

Suite 205, 10335 - 172 Street
Edmonton, Alberta
T5S 1K9
(403) 484-4228 Fax: (403) 484-7676

Contact: Michael Madsen

Company Founded: 1942

Products and Services: The company manufactures acoustic, vibration, gas, thermal comfort and medical instrumentation.

Marketing Activities: Products and services are marketed to government, military and the oil and gas, petrochemical, educational and forestry sectors.

C

C.R. Electronics Limited

R.R. 7
Calgary, Alberta
T2P 2G7
(403) 280-1912 Fax: (403) 280-1963

Contact: C.D. Russell, President

Company Founded: 1980

Products and Services: C.R. Electronics manufactures single-layer printed circuit boards and provides custom manufacturing, custom research and design, and electronic maintenance services.

Marketing Activities: Products and services are for specialized electronic computer and mechanical systems and are sold to a wide variety of industries.

Cache Components Corp.

10443 - 85 Avenue
Jackson House, Old Strathcona
Edmonton, Alberta
T6E 2K2
(403) 439-9201 Fax: (403) 439-8507

Contact: Janet Aime, President

Company Founded: 1986

Products and Services: The company develops, sells and supports products that enhance computer telecommunications. The flagship product is FASTOK™ — a powerful data compressor that can increase transmission rates on serial links by a factor of five. The product is cost-justified for most point-to-point links.

Marketing Activities. Cache Components markets both finished products and product technology to computer users and to technology licensees globally.

Calgary Controls Ltd.

130 Bowness Centre N.W.
Calgary, Alberta
T3B 0H3
(403) 247-9777 Fax: (403) 247-9078

Contact: Larry Manz, Director of Marketing
Sherry Jenkins, Account Manager

Company Founded: 1970

Products and Services: Calgary Controls is a designer and manufacturer of Voice & DTMF signalling equipment for use with two-way radio and telephone systems. The company's main products include: a voice alarm dialler for monitoring alarm contacts, a two/four wire DTMF telephone remote and a radio remote control unit. Calgary Controls is now affiliated with MCK Telecommunications Inc. which has been involved with the development of a loop extender for the Northern Telecom SL-1 deskset.

Marketing Activities: Products and engineering development are marketed to government and to the oil and gas, transportation and telephone industries.

Calta Computer Systems Ltd.

#101, 7180 - 11th Street S.E.
Calgary, Alberta
T2H 2S9
(403) 252-5094 Fax: (403) 252-5102

Contact: Lorne R. Schneider, Vice President

Company Founded: 1981

Products and Services: The company's main focus is real-time micro software (SCADA) for the oil and gas industry. Calta Computer Systems also manufactures a device (PLC ARBITRATOR) for Modicon PLCs which expands a single serial port to two serial ports, and a security device (HACK ATTACK) which resides between a computer and modem and provides secure access and dial back facilities.

Marketing Activities: Products and services are marketed to the oil and gas industry and to manufacturers, direct or through distributors.

Campbell Scientific Canada Corp.

9525 - 41 Avenue
Edmonton, Alberta
T6E 5X7
(403) 461-5158 Fax: (403) 450-2531

Contact: Claude Labine, General Manager

Company Founded: 1978

Products and Services: Campbell Scientific manufactures and distributes automatic data-acquisition systems, as well as environmental monitoring sensors. The data acquisition systems are small, portable, intelligent and flexible and can operate in a wide range of conditions, including remote areas. The systems can either store data on site or be interrogated by a variety of telecommunications links such as: telephones, short haul modems, multi-drop systems, radios and satellites. A software package helps the user in program the systems, communicating with the system to enter into either monitor mode, terminal emulator mode, or simply to upload or download programs. The software package will also allow automatic or manual retrieval of the data as well as the sorting and analysis of the data, to help prepare reports and graphs. Campbell Scientific also manufactures an ultra-sonic sensor for automatic measurements of snow, water or tank levels.

Marketing Activities: Products and services are marketed to government agencies (environment, agriculture, forestry, transportation), public utilities, oil and gas, and the transportation industries.

Canadian Communications Technologies Inc.

1003-D - 55 Avenue N.E.
Calgary, Alberta
T2E 6W1
Tel: (403) 295-8699 Fax: (403) 274-3021

Contact: Adel Tabsh, President

Company Founded: 1976

Products and Services: Canadian Communications Technologies manufactures stand-alone microprocessor-based controllers for numerous applications: POST WATCH allows post office box users to phone their post office box to check for mail in the box; REMOTE WORLD MONITOR fully controls short wave radios such as the Kenwood R-5000 over the phone lines. R&D activities are conducted at the company offices.

Marketing Activities: Products are marketed globally to post offices, communication industries, government and the military.

Cantech Systems Ltd.

1916 - 27th Avenue N.E.
Calgary, Alberta
T2E 7A5
(403) 250-9888 Fax: (403) 291-5659

Contact: Steve Jang, Manager

Company Founded: 1990

Products and Services: Cantech Systems manufactures Inicon heat-treating control systems used to control temperature and monitor current and ground fault on electric heat tracing cable. The controls come in single or multi-point units which interface with either a display programming module or a PC via RS485 communication link to control and monitor an entire site. Cantech Systems also has a CSA approved panel fabricating facility which packages safety shutdown panels using Murphy electronic components and offers panel assembly to customer specifications. The company is a subsidiary of Cantech Corporation.

Marketing Activities: Products and services are marketed to the oil and gas, chemical, pulp and paper, power, mining and steel industries.

Canterra Electronics International Inc.

2nd Floor, 16821 - 113 Avenue
Edmonton, Alberta
T5M 2X2
(403) 486-3145 Fax: (403) 489-7670

Contact: Bruno Dobler, Chairman

Company Founded: 1987

Products and Services: Canterra Electronics International manufactures and distributes energy saving products for the lighting industry and control systems for industrial battery chargers. FRED is an add-on device to core-coil ballasts which reduces power consumption by up to 35 percent, doubles ballast life, extends lamp life and reduces AC loads. The Canterra Sinusoidal Electronic Ballast is a high-efficiency, low-harmonics product for the fluorescent fixture market which incorporates the latest technology in lamp control and is dimmable. CHARGE GUARD is a microprocessor-controlled retrofit system for industrial chargers which prolongs battery life and has diagnostic capabilities.

Marketing Activities: Products are marketed through agents and distributors to the entire spectrum of commercial and industrial users across Canada and the United States.

Celcom Electronics Ltd.

#108, 2723 - 37th Avenue N.E.
Calgary, Alberta
T1Y 5R8
(403) 291-9403 Fax: (403) 250-5158

Contact: Clinton M. Millett, President

Company Founded: 1986

Products and Services: Celcom Electronics manufactures a line of data-interface products which connect data-transmission devices to radios without modification to the facsimile machine or computer. The device allows simplex, half duplex or full duplex transmission without modifying the interface. The analog interface structure is such that one interface can connect all radios; a simple switch box arrangement allows the user to switch the interface between different radios at a given installation. In most cases, the interface can be installed by the user in minutes. Celcom also manufactures an automatic interface capable of auto answer and automatic dialling.

Marketing Activities: Products and services are marketed to government and to the petroleum, mining, tourism, utility, fishing, real estate, and security industries.

Chart Information Systems Ltd.

6884 - 52 Avenue
Red Deer, Alberta
T4N 4L1
(403) 347-3733 Fax: (403) 347-3150

Contact: Reg Warkentin, Director

Company Founded: 1987

Products and Services: Chart Information Systems (CISL) manufactures a circular chart information processing system, ChartPad, an innovative, easy-to-use, efficient and accurate method of obtaining flow, pressure and temperature information from circular charts. The ChartPad system utilizes a customized digitizing tablet and software that operates on IBM compatible computer systems. R&D activities are performed primarily by PhotoComp Systems Inc., a 50 per cent shareholder in CISL.

Marketing Activities: Marketing is performed under contract by BMP Energy Systems Ltd. Systems are marketed globally to hydrocarbon producing and transmission companies at gas plants and field offices, and to independent chart reading service organizations.

Chimo Equipment Ltd.

#100, 909 - 7th Avenue S.W.
Calgary, Alberta
T2P 1A6
(403) 264-2245 Fax: (403) 264-8848

Contact: Robert W. Logan, President

Company Founded: 1973

Products and Services: Under the trade name WATCHDOG, Chimo Equipment manufactures, sells, rents and services electronic drilling instrumentation including surface mud systems, pit volume totalizers, choke panel and actuators, etc.

Marketing Activities: Products are supplied and serviced to the oil industry and utilized by oil companies and drilling contractors.

Circa Telecommunications Inc.

7210G - 5th Street S.E.
Calgary, Alberta
T2H 2L9
(403) 258-2011 Fax: (403) 255-2595

Contact: Paul Gallivan, International Marketing Manager

Company Founded: 1985

Products and Services: Circa Telecommunications manufactures line protection and distribution products for the telecommunications industry. Surge protection for telecommunication lines is essential to protect equipment and personnel from potentially harmful surges caused by lightning, switching of inductive loads, power line crossovers and other transients. In addition to the protection terminals, Circa manufactures protector modules that are inserted into the terminals and act as the surge arrestor.

Marketing Activities: The company's products and services are marketed globally.

Claymore Industries

A Division of Sabre Instrument Services Ltd.
3636C Dartmouth Road S.E.
Calgary, Alberta
T2G 4A6
(403) 243-6775 Fax: (403) 243-8309

Contact: Doug Wall, President

Company Founded: 1989

Products and Services: Claymore Industries specializes in the manufacture of custom consoles, panels, instrument enclosures and equipment racks. It is the exclusive Canadian distributor for the Widney Dorlec component system and it is also the exclusive distributor for the high quality Widney telescopic slide units used in military and electronic equipment.

Marketing Activities: Assembly units and components are marketed to all industry sectors where electronic, instrumentation, automation and control equipment require packaging.

Comptronic Devices Ltd.

9856A - 33 Avenue
Edmonton, Alberta
T6N 1C6
(403) 450-3729 Fax: (403) 461-9551

Contact: David R. Siever, President

Company Founded: 1981

Products and Services: Comptronic Devices manufactures relaxation/brain wave altering electronic equipment. It also manufactures and programs portable, low power micro-controller systems for control/automatic applications and provides CAD and electronic design for printed circuit boards and schematic drawing. Complete product assembly is provided from a wide variety of electronic parts.

Marketing Activities: Services and products are marketed to the medical and general consumer markets.

Computer Environment Solutions

#6, 1112 - 40th Avenue N.E.
Calgary, Alberta
T2E 5T8
(403) 250-5672 Fax: (403) 250-1138

Contact: Stephen Gibson, President

Company Founded: 1984

Products and Services: The company specializes in the identification and resolution of power-related problems that impact on the proper functioning of computers and other sensitive electronic and microprocessor-based equipment. Computer Environment Solutions is also involved in the design and project management of the construction of complete computer facilities such as: computer room raised floor, air conditioning, power distribution and conditioning, water detection, life safety systems and uninterruptible power supplies.

Marketing Activities: Products and services are marketed to end-user markets such as computer-room managers in private industry. Other markets served are government and industry working in tandem with consulting engineers.

Computronix Industrial Electronics Inc.

Bay 9, 4220 - 23rd Street N.E.
Calgary, Alberta
T2E 6X7
(403) 250-3364 Fax: (403) 291-0079

Contact: Bruce Williams, President

Company Founded: 1987

Products and Services: Computronix provides complete electronic design and manufacturing services to small and large businesses from concept to finished product. Services include: cost analysis, R&D and manufacturing; analog, digital and microprocessor design; software development; CAD and drafting; mechanical design; multi-layer PCB layout; schematic capture; parts procurement; bill of material generation; board loading and soldering; final assembly, calibration and testing; and the writing of operating and maintenance manuals.

Marketing Activities: Services are marketed to the oil and gas, pulp and paper, mining, transportation and agriculture sectors, as well as to municipal, provincial and federal governments.

Continental Laboratories (1985) Ltd.

3601A - 21 Street N.E.
Calgary, Alberta
T3J 1Y4
(403) 250-5125 Fax: (403) 291-9556
Tlx: 03-821172CGY

Contact: J.A. Pennington, President
Alex Finnie, Vice President

Company Founded: 1954

Products and Services: Continental Laboratories has R&D and manufacturing divisions that design and manufacture instrumentation for use worldwide. The company provides product development from idea to final production. Types of instrumentation built include: chromatographs, gas detectors, temperature monitors, tank level sensors, flow sensors, pump stroke counters and RPM sensors. Data acquisition systems involving both hardware and software development have been designed and a hand-held, battery-operated, digital-pressure meter is now being produced.

Marketing Activities: Products are marketed to oil service companies.

Cool Grain Inc.

#5, 4429 - 6th Street N.E.
Calgary, Alberta
T2E 3Z6
(403) 277-3061 Fax: (403) 277-1332

Contact: David Crompton, President

Company Founded: 1984

Products and Services: Cool Grain provides a full range of services from design and manufacture to after-sales support of commodity storage management systems. Products include the OPI-ONE Temperature Monitoring System for grain storage management and the OPI 2000 Automated Monitoring and Alarm System for commodity storage and livestock confinement applications. These products are designed for applications requiring high volume, low cost-per-point sensing and data acquisition.

Marketing Activities: Products are marketed primarily to the agricultural industry through a global distribution network.

Cridland Design Inc.

PO Box 20036 B.V.P.O.
Calgary, Alberta
T2P 4H3
(403) 295-8767 Fax: (403) 250-9682

Contact: Ken Cridland, President

Company Founded: 1976

Products and Services: Cridland Design has designed and manufactured the Model CA-411 remote control audio processor — a single, rack-mount size, two-component system with a hand-held remote control and a receiver unit. The company also provides service in contract electronics design for audio, computing systems, control logic and robotics control systems.

Marketing Activities: Products and services are marketed locally, but the company is exploring global markets.

Cytronic Technologies Inc.

3289 - 97 Street
Edmonton, Alberta
T6N 1B7
(403) 450-3636 Fax: (403) 462-4858

Contact: Mike Beauchamp, President

Company Founded: 1989

Products and Services: Cytronic Technologies provides electronic engineering, schematic design and artwork layout (electronic boards), judicial breathalyser interlock services; it also manufactures electronic educational kits.

Marketing Activities: The company markets its products and services to the oil and manufacturing industries and to the educational sector.

DATAP Systems

10th Floor
940 - 6 Avenue S.W.
Calgary, Alberta
T2P 3T1
(403) 237-9500 Fax: (403) 237-9898

Contact: V.R. (Vic) Thomas, Vice President and General Manager

Company Founded: 1969

Products and Services: DATAP is a leading supplier of advanced computer-based products and specialized services to a worldwide marketplace. The company is a software manufacturer specializing in the development of real-time automation and information management systems. DATAP's Supervisory Control and Data Acquisition (SCADA) systems in the petroleum sectors and turnkey network management systems in the telecommunications industry have earned a worldwide reputation.

The cornerstone product of the company's network management systems is IRIS7 (Intelligent Real-Time Information System), a remote monitor and control software product. IDEA (Intelligent Data Evaluation and Analysis) is a fourth generation language product that provides the long-term analysis and archiving of data management. The DS series of software operates remote microprocessor-based terminal units. The basis of DATAP's intelligent network systems is the NSP (Network Services Platform) product line which allows for the consolidation of network administration and control. With these off-the-shelf products, DATAP combines custom software engineering, documentation, training and extended-service support to provide clients with total system solutions.

Marketing Activities: Products and services are marketed globally to the telecommunications, petroleum, electrical utility, bulk materials handling and transportation industries.

DATEK Industries Ltd.

3522 Davies Road
Edmonton, Alberta
T6E 4Y5
(403) 465-1530 Fax: (403) 465-0130

Contact: Dallas Hauge, Director of Marketing
Peter Van der Zee, President

Company Founded: 1971

Products and Services: DATEK Industries is an Alberta-based electronics company specializing in data acquisition and supervisory control systems. The company researches, designs, manufactures and tests integrated hardware and software systems for the petroleum and utility industries. DATEK's professional software engineers specialize in the development of real-time software for the acquisition and display of data through a user-configurable operator interface. A large part of the power and effectiveness of this software is its ability to be run on a multiprocessor-based system. This proprietary product is also available for PCs. The PC version is ideal for low cost applications where a single operator interface is required. Specific problems addressed by Datek products include: full featured, real-time SCADA master software for Intel Multibus or PC systems; data acquisition software; communications software and full SCADA systems.

Marketing Activities: Products and services are marketed to resource and utility companies throughout North America.

Dawson Engineering & Communications Inc.

9620 Oakhill Dr. S.W.
Calgary, Alberta
T2V 3W2
(403) 251-4999 Fax: (403) 295-0732

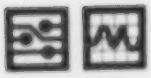
Contact: Wm.S.E. Dawson, President

Company Founded: 1986

Products and Services: Primary activities of Dawson Engineering & Communications include the design, development and light manufacturing of prototype products on a continual basis. The company specializes in remote-link sensing technology for downhole inspection systems in the oil and gas industry. The communication links convey pressure and temperature using infrared and radio frequency data links and high temperature hardened control equipment. The company is also involved in the development of flight recorder data acquisition equipment, a deployable emergency location transmitter and implementation of quality assurance program CAN3/Z299/ISO9000.

Marketing Activities: The company markets its products and services locally and internationally to the oil and gas industry, civil and military aerospace companies.

DSK Canada Ltd.



#920, 555 - 4 Avenue S.W.
Calgary, Alberta
T2P 3E7
(403) 265-4404 Fax: (403) 262-6772

Contact: Bill Fung, President

Company Founded: 1987

Products and Services: The company manufactures and distributes production line equipment for the electronics industry including free-flow assembly conveyors, flat-belt conveyors, automatic wave soldering machines, hand soldering/desoldering tools, surface mount equipment, component forming and insertion machines, ultrasonic vapour cleaner, and in-circuit testers. DSK Canada is affiliated with the DSK group of companies which has offices and manufacturing facilities in Canada, Hong Kong, China, Japan, Taiwan, Thailand and South Korea.

Marketing Activities: Products and services are marketed to manufacturers of electronic products ranging from simple printed circuit boards to highly sophisticated consumer electronics such as computers, printers, telephones, telecommunication equipment, fax machines, microwave ovens, TVs, VCRs and stereo cassette players.

Dycor Industrial Research Ltd.

#130, 17303 - 102 Avenue
Edmonton, Alberta
T5S 1J8
(403 486-0091 Fax: (403) 486-3535

Contact: Hank Mottl, President

Company Founded: 1981

Products and Services: Dycor Industrial Research provides data acquisition and control systems; pressure, flow, humidity, vibration, temperature and load sensors; signal conditioning systems; machine vision and imaging; software and hardware design and manufacturing; clean room monitoring; particle analyzers and ASIC sensor linearization.

Marketing Activities: Products and services are marketed to the petrochemical, nuclear, forestry, commercial, educational, scientific, government and military markets.

E

ED TEL

PO Box 20500
44 Capital Boulevard
10044 - 108 Street
Edmonton, Alberta
T5J 2R4
(403) 441-2177 Fax: (403) 421-9554

Contact: Brian Gibson, Vice President

Company Founded: 1893

Products and Services: ED TEL sells, services and installs telecommunications equipment including business terminal equipment, data equipment, personal computers, LANS, facsimile machines, pagers and provides network services and cellular telephone service. The company is a leader in the application of digital switching, ISDN and fibre optics technology.

Marketing Activities: Products and services are available through the Business Communications Centre.

Eddy Electronics Manufacturing Ltd.

3440 - 93 Street
Edmonton, Alberta
T6E 6A4
(403) 450-0164

Contact: John Eddy, President

Company Founded: 1984

Products and Services: Eddy Electronics provides the service of custom manufactured printed circuit boards, and processes single and double sided printed circuit boards including plated through hole and specialty processes. The company's premier advantage is fine line density (to .004 inches) and solderless processing for environmental concerns. Screen printing services for solder mask and overlay are also offered.

Marketing Activities: The company's products are marketed to product development and manufacturing companies and to government.

Edo Canada Ltd.

1940 Centre Avenue N.E.
Calgary, Alberta
T2E 0A7
(403) 569-5400 Fax: (403) 569-5499

Contact: Frank Wiskar, Manager, GPS and Navigation Products

Company Founded: 1979

Products and Services: Edo Canada represents the entire Ashtech Global Positioning System (GPS) product line to Canadian and selected international markets. An extensive lease pool of single and dual frequency (P Code and squaring) Ashtech precision geodetic GPS receivers is also maintained at the Calgary facility and units are available for immediate world wide delivery. EDO Canada operates a technical support service in their Calgary facility with a three-day workshop offered monthly that is designed to instruct surveyors on planning and performing cost effective GPS surveys utilizing the Ashtech line of GPS Receivers.

Marketing Activities: Products and services are marketed globally.

EEE Tee Digital Design Limited

#4, 4220 - 23 Street N.E.
Calgary, Alberta
T2E 6X7
(403) 297-9790 Fax: (403) 297-9799

Contact: Ed Taylor, President

Company Founded: 1980

Products and Services: The company provides custom electronic designs and devices ranging from real-time data acquisition to motion control. Past projects include automated welding systems, flame speed monitoring in detonations, interactive hydraulic control systems, laboratory monitoring and data acquisition systems. All design work is CAD/CAM generated using Orcad Systems design tools. The company services the "one of" and "special needs" type of design requirements.

Marketing Activities: The company markets its products and services to private industry sectors.

Energy Control Inc.

#7, 2611 - 37th Avenue N.E.
Calgary, Alberta
T1Y 5V7
(403) 291-5008 Fax: (403) 291-6671

Contact: Barrie Drain, Vice President

Company Founded: 1988

Products and Services: Energy Control designs and manufactures microprocessor-based energy analyzers for monitoring electrical use in industrial and commercial applications. Proprietary algorithms contained in the Peak Advance Warning System (PAWS) allow users to maximize electrical efficiency without negative impact on production. PAWS monitors the electrical consumption patterns associated with actual utility rates and riders, providing valuable real-time information not available with conventional metering methods.

Marketing Activities: Products are marketed to industrial, commercial and institutional markets. Private labelling on some products is available.

F

Falcon Inspection Services

#140, 6815 - 8th Street N.E.
Calgary, Alberta
T2E 7H7
(403) 275-4406 Fax: (403) 295-0732

Contact: David Stonehouse

Company Founded: 1986

Products and Services: Falcon Inspection Services is a predictive maintenance service company providing infrared electronic imaging service for many applications including: heat loss in building structures, electro-mechanical inspections detecting loss or corroded connections, furnace refractory inspections, aerial investigations and specialized application development. The company has developed a modified periscope for observation in hot hostile environments.

Marketing Activities: The company markets its products and services to the oil and gas, mining and forestry sectors, industry and government agencies.

FitzPatrick Engineering Ltd.

11124 - 54A Avenue
Edmonton, Alberta
T6H 0W2
(403) 438-1581 Fax: (403) 438-1581

Contact: Art FitzPatrick, President

Company Founded: 1984

Products and Services: The company provides clients with a broad range of engineering and management services such as R&D, feasibility studies, and planning and project management. Fields of specialization include mechanical, industrial and chemical engineering. Typical projects include: planning innovations, market research, mathematical modelling and investigating environmental impacts.

Marketing Activities: Services are marketed to high technology industries, government agencies and new venture companies.

G

Galvanic Analytical Systems Ltd.

PO Box 8550, Postal Station F
5664 Burleigh Crescent S.E.
Calgary, Alberta
T2H 1Z8
(403) 253-6576 Fax: (403) 253-2601

Contact: Douglas Fraser, President

Company Founded: 1975

Products and Services: The company specializes in supplying and servicing gas analyzers and process instrumentation. Some areas of specific applications are: flow, BTU and oxygen measurement in the combustion process; process measurement of H_2S, moisture; and fabrication of sampling systems and Balston coalescing filters.

Marketing Activities: Products are marketed to government and to the pulp and paper, mining, and oil and gas industries.

Gastech Instruments Canada Ltd.

1721 - 27 Avenue N.E.
Calgary, Alberta
T2E 7E1
(403) 291-4700 Fax: (403) 291-2092

Contact: Thomas Lessing, Engineering Manager

Company Founded: 1985

Products and Services: Gastech Instruments manufactures portable and fixed system gas detection equipment for combustible gases, oxygen deficiency and most toxic gases. It also provides contract manufacturing, product servicing, training and consulting services.

Marketing Activities: Gastech products are used in a wide range of applications by industrial safety managers, facilities personnel, process engineers, industrial hygienists and hazardous material handlers.

Genesis Communication Inc.

12525 - 89 Street
Edmonton, Alberta
T5B 3X2
(403) 477-7744 Fax: (403) 477-7630

Contact: Jerry Van Dyke, President

Company Founded: 1980

Products and Services: Genesis Communication is an audio-visual company which provides design, supply and installation of sound, video and lighting systems. In addition, the company has a complete service facility offering electronic repair, speaker reconing and custom manufacturing.

Marketing Activities: The company markets its products and services to a wide variety of clients including: sports and community centres, schools, institutions, the hospitality industry and government. Genesis has a strong client base in the installations of sound systems in churches.

Geophysical Research Corporation Ltd.

#1, 6325 - 11 Street S.E.
Calgary, Alberta
T2H 2L6
(403) 252-3222 Fax: (403) 253-8007

Contact: Philip Boulware, Manager

Company Founded: 1986

Products and Services: Manufacturers and distributors of mechanical and electronic measurement instruments used in reservoir evaluation, Geophysical Research provides service and support to clients in calibration, maintenance and testing through worldwide centres.

Marketing Activities: The company markets its products and services to companies involved in petroleum exploration and production.

Gray Instruments Inc.

#5, 4452 - 64 Avenue S.E.
Calgary, Alberta
T2C 2B3
(403) 236-0388 Fax: (403) 279-2879

Contact: Daniel P. Gray, President

Company Founded: 1984

Products and Services: The company designs, develops and manufactures custom microcontroller-based instrumentation. Such products include non-destructive test instrumentation; digital light dimmers and controllers; custom interfaces and data acquisition products using digital and analog hardware.

Marketing Activities: Products and services are marketed to oilfield servicing companies, theatrical and architectural lighting suppliers, teaching institutions and telecommunications companies.

Global Thermoelectric Inc.

333 - 50th Avenue S.E.
Calgary, Alberta
T2G 2B3
(403) 253-3552 Fax: (403) 253-4607

Contact: Alan G. McNaughton, Sales and Marketing Manager

Company Founded: 1975

Products and Services: Global Thermoelectric manufactures and supplies highly reliable, low maintenance DC power systems. Using thermoelectric generators, the company provides power for applications requiring from 10 to 6000 Watts. Global manufactures portable and stationary thermoelectric generators which require very little maintenance, have a long operating life and typically need servicing only once a year. The generators burn gaseous fuels such as propane, natural gas or liquid fuels such as diesel.

Marketing Activities: Products are marketed to the telecommunications and the oil and gas industries to power numerous applications including cathodic protection, remote radio repeaters, data gathering, SCADA and navigational aids.

GSR Technologies Ltd.

(Laser Division)
12345 - 121 Street
Edmonton, Alberta
T5L 4Y7
(403) 451-9000 Fax: (403) 455-4831

Contact: Dr. Roger D. Ball, Director of Marketing and Technology

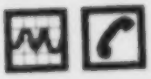
Company Founded: 1990

Products and Services: The staff of GSR Technologies (Laser Division) have over 15 years of experience in the development and manufacture of laser cutting equipment for the plastics and textile industry. Carbon dioxide CW Lasers incorporating the latest innovations in microprocessor-design and solid state electronics are available in 500 Watt single or dual-beam configurations. Reliability and ease of maintenance have been assured through extensive testing at the company's three shift, contract cutting operation. Tubular and roll goods laser cutters are manufactured for the textile industry and are capable of cutting material up to 72" wide.

Marketing Activities: The company markets lasers and laser systems globally and contract cutting services are available in North America to companies involved in textiles and the plastics industries.

H

Harding Instrument Company Ltd.



9431 - 41 Avenue
Edmonton, Alberta
T6E 5X7
(403) 462-7100 Fax: (403) 450-8396

Contact: Pat Harding, President
Ian Wellman, Vice President, Marketing

Company Founded: 1969

Products and Services: Harding Instruments develops and manufactures products used in gas and liquid flow measurement. These totalizers and gas flow computer products are sold worldwide on an OEM basis through ITT Barton Instruments. The company has also developed an institutional intercom system which is used in facilities such as prisons and airports.

Marketing Activities: The company's products are marketed globally through strategic relationships.

Hartman Technica

#1, 203 - 35 Avenue N.E.
Calgary, Alberta
T2E 2K5
(403) 277-6223 Fax: (403) 277-8507

Contact: Ms. Chris Hartman, President

Company Founded: 1976

Products and Services: Hartman Technica undertakes custom electronics design for specialized internal requirements or new products, from initial concept to production. The company has the capacity for prototype and small quantity production, and will help in setting up large quantity production. Past projects have included analog, digital, and hybrid instrumentation, controls, computer graphics, ultrasonics, radio frequency and signal processing equipment. Hartman Technica's expertise includes: reliable designs for hostile or hazardous environments, careful attention to human interface requirements, and provision of full software support and documentation. Where appropriate, the company will assist clients with patenting.

Marketing Activities: The company markets its products and services to oil companies, oil and petrochemical service companies, instrument manufacturers, agricultural organizations, R & D laboratories, medical organizations, the transportation and entertainment industries and government.

Hayley Industrial Electronics Ltd.

7111 - 6 Street S.E.
Calgary, Alberta
T2H 2M8
(403) 259-5523 Fax: (403) 253-1108

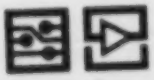
Contact: Noel Hayley, President

Company Founded: 1978

Products and Services: Hayley Industrial Electronics is a wholly-owned Canadian company with products designed, manufactured and serviced in Calgary. Products cover a custom line of Rectifiers/Battery Charger Inverters and Transfer Switches that, when combined, make up a line of DC and AC uninterruptible power supply systems ranging in capacity from 500 VA to 30 KVA. These units are completely packaged and interwired, ready for field installation. The company's engineering division has over 30 years experience in the design of power conversion equipment and associated electronics; custom designing to customer requirements is standard procedure.

Marketing Activities: Products and services are marketed to organizations such as: oil and gas, petrochemical, electrical and gas utilities, telephone and telecommunication utilities, as well as other smaller commercial and industrial enterprises.

Hilton Electronics Manufacturing



#4, 535 - 20th Avenue S.W.
Calgary, Alberta
T2S 0E7
(403) 228-9845 Fax: (403) 262-3524

Contact: Alan Hilton, President

Company Founded: 1989

Products and Services: The company designs and manufactures a number of electronics products on a contract basis. Primary design expertise is in digital electronics and control. Software services are also available. Manufacturing capabilities include a 9-inch wave soldering machine and a 9-inch infra-red reflow oven for surface-mount applications.

Marketing Activities: Products and services are primarily targeted in Alberta.

Hoyme Manufacturing Inc.

4336 - 41 Street
Camrose, Alberta
T4V 4E5
(403) 672-6553 Fax: (403) 672-6554

Contact: Clifford Hoyme, President

Company Founded: 1984

Products and Services: Hoyme Manufacturing manufactures motorized air controls (ACA PAC) for the ventilating and heating industries, both commercial and residential. The company has also developed the Electric Interface Adaptor which makes it possible to connect 24V air controls to mV, 120V and 240V safety control systems.

Marketing Activities: The company markets its products and services to government housing programs, and distributors and contractors in the heating industries in Canada and the United States.

I

IDACOM Telecommunications

Division of Hewlett-Packard (Canada) Ltd.
4211 - 95 Street
Edmonton, Alberta
T6E 5R6
(403) 462-4545 Fax: (403) 462-4869

Contact: Walter Stein, General Manager

Company Founded: 1981

Products and Services: The IDACOM division of Hewlett-Packard specializes in high-performance protocol testing solutions for the designers, integrators and operators of data communications networks. A world leader in its field, IDACOM produces high speed data network analyzers and communications protocol testing devices. Its major product is the PT family of protocol analyzers, designed to monitor and emulate data communications protocols and used as a simulation tool in product development.

Marketing Activities: Products and services are marketed to manufacturers of communications hardware, telephone companies and other signal carriers worldwide, and users of telecommunications such as banks, governments and the military.

Identity Systems International Inc.

#104, 9650 - 20 Avenue
Edmonton, Alberta
T6N 1G1
(403) 450-6363 Fax: (403) 450-6531

Contact: Marcel Graves, President

Company Founded: 1988

Products and Services: By interfacing integrated circuit cards (smart cards) and biometrics (fingerprints), Identity Systems International has developed a state-of-the-art security system that electronically verifies the terminal attempting to read the card, the card being introduced to the system, and the individual presenting the card. The Physical Access Control System has been tested at the University of Alberta Hospitals. The system includes fibre-optic technology, data encryption/decryption techniques, and affords the capability of irrefutable audit trailing through the use of fingerprint digitization capabilities.

Marketing Activities: Products and services are marketed to organizations requiring a high degree of physical or electronic security (ie. computer networks) or document protection such as drivers' licences, health care cards, passports or travel visas.

Image Inspection Services Ltd.

#3, 3911C Brandon Street S.E.
Calgary, Alberta
T2G 4A7
(403) 287-1053 Fax: (403) 243-4564

Contact: Paul M.A. Verra, President

Company Founded: 1986

Products and Services: The company designs and manufactures closed-circuit television systems and components covering all aspects of security and surveillance needs, high resolution camera systems for medical imaging and computer image analysis and night vision. Image Inspection Services also provides video design services for RF remote transmission, custom lighting, customs inspection and surveillance systems; video inspection services covering municipal sewers, water wells and oil wells; and industrial inspection for piping and vessels, preliminary inspections for pipe relining, pipeline corrosion detection and evaluation.

Marketing Activities: The company markets its products and services to governments, hospitals and private water and sewer contractors.

Infosat Telecommunications Ltd.

100 Discovery Place One
3553 - 31 Street N.W.
Calgary, Alberta
T2L 2K7
(403) 282-4853 Fax: (403) 282-8926

Contact: James Betker, Technical Services Manager

Company Founded: 1986

Products and Services: Infosat Telecommunications is a supplier of complete satellite communications systems. Additionally, the company manufactures analog satellite broadcast terminals for radio, voice and data. Infosat also offers two-way voice/data and video communication services through RF or laser systems. Additional product lines include: digital satellite modems, digital voice CODEC and Ku band RF radios.

Marketing Activities: The company markets its products to the resource sector including oil, mining and forest industries.

Innovage Microsystems Inc.

#203, 7260 - 12 Street S.E.
Calgary, Alberta
T2H 2S5
(403) 255-9590 Fax: (403) 258-7441

Contact: Michael Kaiser, President

Company Founded: 1980

Products and Services: Innovage Microsystems, a R&D organization, focuses on the design and fabrication of manufacturing test systems and service test systems for equipment that utilizes microprocessors. The product line, called the TRACER 2000 SYSTEM, is made up of a sophisticated emulation product that is tailored to troubleshooting requirements and an automatic test environment software package.

The company also focuses on the development of niche telecommunications products. It has developed modems specifically for the remote order entry market and message systems.

Marketing Activities: The products developed are licensed for manufacturing and marketing with a number of companies worldwide.

Innovex Ltd.

Suite 9, 5910 - 5 Street S.E.
Calgary, Alberta
T2H 1L4
(403) 259-4332 Fax: (403) 255-8448

Contact: Robin Fair, President & Manager

Company Founded: 1978

Products and Services: Innovex performs quality assurance reviews to ensure the safely-calibrated operation of medical and related instrumentation found in hospitals, clinics and laboratories. The company also repairs a wide range of equipment and consults with hospitals on equipment purchases.

Marketing Activities: Products and services are marketed to rural hospitals, clinics and laboratories.

INSTAR Corporation

Suite 306, 205 - 9th Avenue S.E.
Calgary, Alberta
T2G OR3
(403) 264-7274 Fax: (403) 264-7286

Contact: Graham Irving, President

Company Founded: 1984

Products and Services: INSTAR is an innovative R&D manufacturing and consulting firm specializing in the application of removable data-storage technologies, specifically optical disk technology to mass storage problems. INSTAR's expertise spans all aspects of custom information system design, as well as the development of commercial high-performance optical disk based products.

Marketing Activities: The company markets its products and services to a wide range of industries which include but are not limited to: defense contractors, oil and gas, high tech firms, electronic surveyors, transportation industries and to government.

Instrument Service Laboratories Ltd.

9311 - 35 Avenue
Edmonton, Alberta
T6E 5R5
(403) 463-7488 Fax: (403) 463-7450

Contact: Larry Hesse, Regional Manager

Company Founded: 1945

Products and Services: Instrument Service Laboratories (ISL) is a national multi-dimensional industrial instrumentation sales and service organization. The company's primary areas of expertise include: process control, level and weighing, test and measurement equipment. ISL has also established a national distribution network marketing a complete line of temperature, electrical testers and recorders.

Marketing Activities: The company's industrial market includes the oil and gas, pulp and paper, chemical, plastics, HVAC, concrete, heat treating and engineering industries. The distribution division markets its products to the electrical and refrigeration industries.

Intera Information Technologies Corporation

#2500, 101 - 6 Avenue S.W.
Calgary, Alberta
T2P 3P4
(403) 266-0900 Fax: (403) 265-0499

Contact: Marc Wride, Vice President, Marketing

Company Founded: 1974

Products and Services: Intera specializes in making information useable to the user. Its services include data acquisition, and processing as well as system design and operation. Its products include presentation of georeferenced data on a GIS base or otherwise, in a soft or hardcopy form. Intera can supply services to cover all aspects of a remotely sensed data, from acquisition to final interpretation. It has considerable experience in airborne operation owning a fleet of aircraft which are used as platforms for a large variety of sensors, including the advanced commercial Synthetic Aperture Radar.

Marketing Activities: Intera has 20 offices distributed worldwide. Its customers include funding agencies such as CIDA and the World Bank; government agencies and resource companies involved in oil and gas, mining and forestry.

Interalia Inc.

4110 - 79 Street N.W.
Calgary, Alberta
T3B 5C2
(404) 288-2706 Fax: (403) 288-5935

Contact: Wayne Leibel, Marketing Manager

Company Founded: 1975

Products and Services: Interalia is a leader in the design and manufacture of digital voice announcement systems for the telecommunications industry. The company utilizes the technique of storing messages digitally in memory instead of on tape. It has developed products with advanced capabilities and features, high quality voice reproduction and consistent reliability.

Interalia provides a full line of passive and interactive multi-line telephone information system and also manufactures four-and eight-port voice processing boards compatible with 286 and 386 computers.

Marketing Activities: The company markets its products and services globally.

Inventronics Ltd.

3900 - 101 Street
Edmonton, Alberta
T6E 0A5
(403) 461-5010 Fax: (403) 450-0234

Contact: Gary Thompson, President

Company Founded: 1970

Products and Services: Inventronics manufactures precision quality metal products for the telecommunications and electronics industries. Utilizing the latest CAD systems to work with customers from the prototype stage to full scale manufacturing, the company is certified up to and including MIL standards. Inventronics has implemented a total quality management program as well as ISO 9002 standards. The company also supplies racks, enclosures and piece parts to just-in-time (JIT) requirements on an OEM basis.

Marketing Activities: Products and services are marketed to telephone utilities and suppliers to the telecom industry. A line of standard racks and enclosures is sold through distribution to the end market.

Invertor Technology

Division of McCrum Holdings Ltd.
Box 3874, Station B
Calgary, Alberta
T2M 4M5
(403) 936-5888 Fax: (403) 936-5844

Contact: Gordon McMillan, President
Judy McMillan, Secretary Treasurer

Company Founded: 1976

Products and Services: Invertor Technology specializes in the manufacture of power conversion products. The standard product lines include sine-wave inverters, DC-DC converters, industrial charging and monitoring systems, uninterruptible power supplies, cathodic protection rectifiers and laboratory power supplies. R&D is performed within the company for all products.

Marketing Activities: Products are marketed to the aircraft, oil and gas, medical, educational, mining, irrigation, agricultural, cathodic protection, transportation industries and government. The company exports some product lines to the United States.

Itres Research Ltd.

Suite 110, 6815 - 8th Street N.E.
Calgary, Alberta
T2E 7H7
(403) 274-7440 Fax: (403) 295-3570

Contact: Dr. Clifford D. Anger, President

Company Founded: 1979

Products and Services: Itres Research has developed high-quality electro-optical instruments for the scientific and remote sensing communities. The company, a leader in electro-optics technology, conducts R&D in applications of charge-coupled devices for cameras and imaging systems which operate in visible light, ultraviolet or near-infrared ranges. Itres has special expertise in digital electronics camera systems and charge-coupled device (CCD) technology. Applications include remote sensing, x-ray detection, ultraviolet, infrared and low light level imaging and machine vision.

Marketing Activities: The Compact Airborne Spectrographic Imager (CASI) has become the company's most marketable product with applications ranging from agriculture, forestry and land use, to oceanographic, laboratory and environmental impact studies.

ITT Barton Instruments

3840 - 11A Street N.E.
Calgary, Alberta
T2E 6M6
(403) 291-4814 Fax: (403) 291-5678

Contact: Joe Incontri, General Sales Manager

Company Founded: 1964

Products and Services: ITT Barton is engaged in the design, manufacture, sale and service of process instruments. The company provides mechanical, electromechanical and electronic instrumentation which sense, monitor, compute, record and control various conditions of liquids such as flow, level, differential pressure, density, corrosion and other physical and chemical properties of fluids.

Marketing Activities: Products and services are marketed to gas production and transmission, petroleum, chemical and petrochemical, pulp and paper, power, process industries, industrial processors of liquids and gases, and to government.

K

Karlen Electronic Systems (1981) Ltd.

16004 - 121A Avenue
Edmonton, Alberta
T5V 1B2
(403) 454-6287 Fax: (403) 452-1387

Contact: Ken Kenton, Manager

Company Founded: 1981

Products and Services: Karlen Electronic Systems supplies, installs and services sound, intercommunications, door entry controls, television and clock systems to schools, hospitals, churches, apartment buildings, restaurants, recreational facilities and industry.

Marketing Activities: Products and services are marketed to government, institutions, industry and recreational and leisure facilities.

Kern Electronics Inc.

#4, 9808 - 47 Avenue
Edmonton, Alberta
T6E 5P3
(403) 438-8033 Fax: (403) 438-8033

Contact: Trevor Kern, President

Company Founded: 1982

Products and Services: Kern Electronics offers custom electronic design, manufacturing and prototyping of new products including circuit, packaging and aesthetic product design. The recently formed VIDI*Graphics*™ Division develops and manufactures custom stand-alone, video-based multimedia systems including information kiosks, point-of-purchase and point-of-sale systems throughout Canada.

Marketing Activities: Products and services are marketed to commercial clients in the health care industry, fire alarm companies and fast food outlets.

L

Lakewood Systems Ltd.

9258 - 34A Avenue
Research Center 200
Edmonton, Alberta
T6E 5P4
(403) 462-9110 Fax: (403) 450-3867

Contact: Don Hlibka, President
Greg Bergsten, Sales Manager

Company Founded: 1977

Products and Services: Lakewood Systems manufactures an external data recorder that allows easy recording of conditions such as: temperature, pressure, fluid level, humidity, rainfall, and voltage for graphical and tabular analysis on laptop or desktop IBM/PC's. Data can be retrieved from a distance by modem and graphed or moved easily with the firm's user-friendly data logging software products.

Marketing Activities: Products and services are sold to environmental, geotechnical, oceanic, automotive, laboratory, agricultural and medical industries throughout Canada and the United States.

Language Systems Design, Inc.

PO Box 4942
Edmonton, Alberta
T6E 5G8
(403) 963-3464

Contact: James R. Savage, President

Company Founded: 1987

Products and Services: Language Systems Design provides contract R&D services, specializing in computer design and computer architecture. The company is particularly strong in control mechanism design and in application specific processor architecture. It has developed several distinct algorithms for data compression.

The company's Data Compression Unit (DCU) is a chip set product which combines application specific architecture with a new data compression algorithm to achieve high performance at low cost. Long-term research at Language Systems Design includes work on high performance parallel computing systems, and in particular, work on control mechanism designs for parallel systems.

Marketing Activities: The company markets its product designs and chip sets to manufacturing and marketing companies in the telecommunication and computer industries.

LSI Logic Corporation of Canada Ltd.

Suite 3410
Petro-Canada Centre
150 - 6th Avenue S.W.
Calgary, Alberta
T2P 3Y7
(403) 262-9292 Fax: (403) 262-9494

Contact: Paul F. Carpino, Director of Public Relations

Company Founded: 1985

Products and Services: LSI Logic provides design services, related software and leading-edge silicon products for application specific integrated circuits (ASICs). Building on this core technology, LSI Logic also markets total solutions in standard or customized PC chip sets, RISC microprocessors and digital signal processing (DSP) products. At each of these levels of integration, the firm can provide its customers with design expertise for customer specific requirements. The corporation is a member of the LSI Group of Companies and operates 50 design centres across Canada with ASIC manufacturing in Edmonton. The Edmonton plant provides state-of-the-art 1.5 micron CMOS wafer fabrication and metallization, assembly and testing, a fully automated surface-mount assembly line handles printed circuit board and system assembly.

Marketing Activities: The company's ASIC, PC chip set, RISC microprocessor, DSP chip set and other products and services are marketed primarily to manufacturers in the telecommunications, electronic data processing, military and aerospace industries in Canada and South Korea.

M

Madenta Communications Inc.

Box 25, 9650 - 20 Avenue
Edmonton, Alberta
T6N 1G1
(403) 450-8926 Fax: (403) 428-5376

Contact: Randy Marsden, President

Company Founded: 1988

Products and Services: Madenta Communications' product development efforts involve adapting Macintosh computer technology for the benefit of disabled individuals. Madenta's first product is a hardware and software package. It enables people with disabilities to access the Macintosh and to use it as a living aid and communication device. Features include word, phrase and action prediction based on the frequency of past occurrences; single or multiple switch control of the Macintosh's graphical user interface; keyboard entry through standard expanded or mini keyboards, or an adaptable on-screen scanning keyboard; single switch cursor control that replaces the operation of the standard Macintosh mouse; unlimited vocabulary voice communication using internal or external speech synthesizers; telephone communications through an adapted cordless telephone; and custom displays adaptable to the user's cognitive and motor skill's level.

Marketing Activities: Products are marketed through a major distributor in the United States. Export sales include markets in the United States, Europe, Asia and the Middle East.

Mark Products

Division of Shaw Industries Ltd.
1108 - 55th Avenue N.E.
Calgary, Alberta
T2E 6Y4
(403) 275-3544 Fax: (403) 295-1805

Contact: Harvey H. Layton, General Manager

Company Founded: 1963

Products and Services: Mark Products is a major manufacturer of geophones, seismic cables and connectors for oil and gas exploration as well as instrument and composite video cables. Special custom cables are manufactured for a variety of industrial and military applications.

Marketing Activities: Products and services are marketed primarily within Canada, with some products being supplied to international customers.

McAllister Petroleum Services Ltd.

#107, 2507 - 12th Street N.E.
Calgary, Alberta
T2E 7L5
(403) 250-1911 Fax: (403) 250-8738

Contact: Jack Still, Vice President

Company Founded: 1980

Products and Services: McAllister Petroleum Services designs and manufactures electronic instruments for measurement of pressures and temperatures in oil and gas wells and provides related field services. The product line includes the Electronic Memory Probe for down hole recording on battery power; the Surface Memory Probe for recording well head pressures and waterflood injection flows; and the Sub-Surface Monitor Probe for real-time surface readings via conductor wire lines. All products are designed to work with a personal computer using McAllister software.

Mechanical equipment for permanent instrument installations (gauge carriers, sidemounts and well head connections) are also marketed. The company designs and manufactures Annulus Casing Packers and other equipment for producing wells and Drill Stem Testing tools. Products are available for rent, lease or sale or on a service basis. The company has R&D personnel and facilities for all products in Calgary.

Marketing Activities: Products and services are provided to oil and gas producers, wireline operators and well testing service companies world-wide.

MCK Telecommunications Inc.

130 Bowness Centre N.W.
Calgary, Alberta
T3B OH3
(403) 247-9777 Fax: (403) 247-9078

Contact: Sherry Jenkins, Account Manager
Larry Manz, Director of Marketing

Company Founded: 1989

Products and Services: MCK Telecommunications has concentrated on the development of the "EX" System which provides "off-premise loop extension" for SL-1 feature sets. The company also manufactures an LED monitor card which allows the user to monitor IPM of the LED on an SL-1 deskset. MCK Telecommunications is now affiliated with Calgary Controls Ltd., a designer and manufacturer of Voice and DTMF signalling equipment.

Marketing Activities: Products and services are marketed to telephone companies, military bases and university campuses.

MegaSys Computer Technologies

6815 - 8th Street N.E.
Calgary, Alberta
T2E 7H7
(403) 295-0511 Fax: (403) 275-2767

Contact: Dave Woronuk, President

Company Founded: 1981

Products and Services: MegaSys Computer Technologies is an Alberta-based corporation created to market and promote Mega-Dac, a sophisticated SCADA system designed for industrial and telecommunications process control applications. The Mega-Dac system offers a multiplicity of Network Management solutions, integrating the latest in RISC, SONET, risk management and computer networking technologies. Customized data management solutions include high resolution graphic generation, real-time alarming systems and high speed database access. Mega-Dac offers multiple vendor capability fully accessible in a LAN or WAN environment.

Marketing Activities: The company markets its products and services to the industrial and telecommunications marketplaces.

Mega Technical Industries Ltd.

9307 - 35 Avenue
Edmonton, Alberta
T6E 5R5
(403) 450-3022 Fax: (403) 461-8378

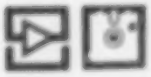
Contact: R. Lindsay, President

Company Founded: 1986

Products and Services: The company offers sales and service for radar traffic control systems, including the new VICS (Video Incident Capture System). Additionally, Mega Technical manufactures a number of safety products including automatic headlight controllers, auto alarm systems and LIFE-LITE safety bands.

Marketing Activities: Products are currently marketed in the United States and Canada to law enforcement agencies and safety and automotive industries. Markets are being expanded overseas.

MENTOR Engineering Inc.



1415 - 4A Street N.W.
Calgary, Alberta
T2M 3B1
(403) 282-7984 Fax: (403) 289-1760

Contact: Michael Koebel

Company Founded: 1988

Products and Services: MENTOR Engineering manufactures ODYSSEY, a complete alarm reporting and control system. The ODYSSEY system is easily customized using the firm's flexible software and a full line of telemetry products which include: RTUs, mini RTUs, mobile data terminals and a master terminal unit (Odyssey PC software and radio controller) for central control. ODYSSEY operates over existing voice-radio systems for a cost-effective method of alarm reporting, alarm forwarding, personnel location and status monitoring, paging, messaging and remote control from either a field vehicle or central control. MENTOR also manufactures a Computer Access Security System (CASS) which is a security modem with a callback feature, password checking, command screening and an event log, for protection of computer systems from unauthorized users/hackers gaining access via the public telephone network.

Marketing Activities: The ODYSSEY system is marketed largely to oil and gas operations, yet is applicable to any situation such as mining or irrigation which require monitoring of alarms and remote control. The CASS security modem is largely used by telephone companies for protection of their electronic switching equipment.

MICROLOGIC Limited

#12A, 4101 - 19th Street N.E.
Calgary, Alberta
T2E 7C4
(403) 250-2911

Contact: Robert Atkins, President

Company Founded: 1978

Products and Services: MICROLOGIC provides electronics engineering consulting services related to the design and development of microprocessor-based products. The company also provides contract manufacturing and assembly services.

Marketing Activities: The company markets its products and services to the oil and gas, alternate energy supply, software and environmental service industries.

Micro-Watt Control Devices Ltd.

#7, 2611 - 37 Avenue N.E.
Calgary, Alberta
T1Y 5V7
(403) 250-1594 Fax: (403) 291-6671

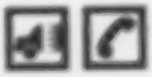
Contact: E. Watts, Operations Manager

Company Founded: 1985

Products and Services: Micro-Watt Control Devices designs and manufactures a range of products including: demand monitors, turn-key control panels and annunciator panels for fire and gas protection, burner management, transient protection and signal conditioning, and explosion-proof enclosures and visual displays for operator interface units and industrial computers.

Marketing Activities: Products and services are marketed to governments, the military, and to research, petroleum, pulp, chemical and mining industries.

Mobitex Data Ltd.



4A, 3516 - 26 Street N.E.
Calgary, Alberta
T1Y 4T7
(403) 291-2770 Fax: (403) 250-6795

Contact: Dale Poloway, Manager
Rob Slevin, Marketing Director

Company Founded: 1985

Products and Services: Mobitex Data provides OEM design, manufacturing and consulting services for industrial mobile data systems and mobile radio signalling products. The company's data systems are used worldwide in demanding environments such as surface mining, gas processing, pipeline and tar sands operations. Applications for the system include: real-time production monitoring, computer-aided dispatch, vehicle location and remote control and status monitoring. Products provided by Mobitex include mobile data terminals, station controllers, radio modems and host computer operating systems.

Mobitex signalling products are utilized primarily in the land mobile radio industry and include ANI encoder/display units, DTMF decoder/page transponders, DTMF encoders, CTCSS encoders/decoders and paging encoders.

Marketing Activities: Mobitex products are used worldwide in oil and gas, mining, and communications industries.

MSR Magmeter Manufacturing Ltd.

11812 - 145 Street
Edmonton, Alberta
T5L 2H3
(403) 455-2623 Fax: (403) 452-4191

Contact: Paul F. Mahler, President

Company Founded: 1984

Products and Services: The company is engaged in the design, development, manufacture and sale of systems to measure any conductive liquid or slurry in pipes or conduit larger than 2" diameter. Each of the systems operates using a single point magnetic sensor to measure the velocity of the liquid flow. Units include the Magtap "one size fits all", the portable Multiflo and the Big Dipper for measurement of flow in open channels.

Marketing Activities: MSR systems are marketed to municipalities, government agencies, pulp and paper mills, public utility companies, chemical and petro-chemical industries.

Multitech Electronics Inc.

15055 - 118 Avenue
Edmonton, Alberta
T5V 1B9
(403) 451-5390 Fax: (403) 451-1735

Contact: Karim Amarshi, Director

Company Founded: 1982

Products and Services: Multitech Electronics manufactures audio/video connectors and adaptors, batteries, solder, wire and cable, test equipment and surge protection devices. The company also supports systems integration of 286/386/486 based micro-computer systems in customized configurations from stand-alone units to networks.

Marketing Activities: Products and services are marketed primarily to government institutions, schools, hospitals and a large network of dealers. Industrial electronics customers include logging, mining, oil and gas, transportation industries and OEMs.

Myrias Computer Technologies Inc.

8522 Davies Road
Edmonton, Alberta
T6E 4Y5
(403) 463-1337 Fax: (403) 465-0130

Contact: Wayne T. Karpoff

Company Founded: 1982 (formerly Myrias Research Corp.)

Products and Services: Myrias produces high-performance parallel computer systems. Unique to Myrias is an operating system which automatically distributes, load balances and manages concurrent processes. Parallelism is expressed with simple extensions to standard Unix languages C and Fortran, freeing the programmer from the normal complexities of programming found in other parallel systems. The current hardware, SPS-3, is a multiple instruction multiple data (MIMD) architecture based on nodes using Motorola 68040 processors with 8 or 16 megabytes of memory. The SPS-3 is available in configurations of 16 to 1024 nodes with a variety of input/output and networking options.

Marketing Activities: Myrias systems have been installed in both the Canadian and United States defence departments, the University of Alberta, Calgary and Colorado, the Alberta Research Council, various United States national laboratories and the Canadian Network for Space Research.

N

Neotrol Technical Services Ltd.

9411 - 63 Avenue
Edmonton, Alberta
T6L 5E3
(403) 438-8866 Fax: (403) 438-9491

Contact: Brian Hamilton, General Manager

Company Founded: 1981

Products and Services: Neotrol Technical Services manufactures, installs and services motor speed control and temperature measurement and control systems. In the area of motor speed control, the company sells and services motors and variable speed controllers for AC and DC applications covering the range of 1/4 through 1500 horsepower. In temperature measurement and control, the company sells and services instrumentation for both contact and non-contact (infrared) temperature measurement capabilities.

Marketing Activities: Products and services are marketed to all industries.

Newco Safety Tel Inc.

Bay 12, 700 - 58 Avenue S.E.
Calgary, Alberta
T2H 2E2
(403) 258-3100 Fax: (403) 253-4967

Contact: Ron Stewart, President

Company Founded: 1986

Products and Services: The company designs and manufactures specialty communications equipment for use in harsh environments and special applications (explosive atmospheres, exposure to weather, high humidity and chemical vapours). Newco Safety Tel's primary product is an industrial, touch-tone, explosion-proof telephone which is CSA/UL approved. This is complemented by Newco's rig intercom system which is used on landbased/offshore oil drilling rigs. Other products include: Lineman's Test Set, a new model 401 Explosion Proof Telephone, an affordable Industrial Weatherproof Telephone and a line of industrial peripheral devices. Industries which would use explosion proof telephones include: petro-chemical, fertilizer and grain processing, munitions, oil and gas refining, drilling and bulk loading operations, and paint and varnish manufacturing.

Marketing Activities: Newco's products and services are marketed globally to the petro-chemical and resource industries, particularly the explosion proof telephone.

Nor' West Controls Canada Inc.

5815E - 36 Street S.E.
Box 8370, Station F
Calgary, Alberta
T2J 2V5
(403) 279-4174 Fax: (403) 938-7087

Contact: Gaye McLennan, Vice President

Company Founded: 1977

Products and Services: Nor' West Controls designs and manufactures modular alarm cabinets, custom control systems, modular control consoles and the NorPro industrial computer.

Marketing Activities: Products and services are marketed to the oil and gas, petrochemical and power industries.

Northern Telecom Canada Limited

#2200, 10235 - 101 Street
Edmonton, Alberta
T5J 3G1
(403) 441-3100 Fax: (403) 441-3133

Contact: Mr. R.R. Bird, Vice President, Western Canada

Company Founded: 1895

Products and Services: Northern Telecom manufactures DMS-100 central office digital switching equipment, cellular radio equipment and the Meridian Norstar family of business communication systems. Globally, the company manufactures a complete range of fully digital telecommunication products including: switching, transmission, cable, PBX's, key systems, data networks, terminals, business products, cellular telephone products and personal communications networks in 42 plants around the world.

Marketing Activities: Northern Telecom is one of four marketing organizations worldwide. The others are Northern Telecom U.S., STC/Northern Telecom Europe and Northern Telecom Asia/Pacific. Each organization provides dedicated sales, marketing and service resources to individual customers, groups of customers and national markets. The company markets its products to more than 80 countries, products manufactured in Alberta are used in more than 40 countries.

NovAtel Communication Ltd.

102 - 64 Avenue N.E.
Calgary, Alberta
T2E 7V8
(403) 295-4500 Fax: (403) 295-0230

Contact: LaDawn Bly, Corporate Communications Coordinator

Company Founded: 1983

Products and Services: Novatel designs and manufactures cellular subscriber equipment and systems at its Calgary and Lethbridge facilities. The company also provides engineering services. NovAtel's family of cellular mobile and portable telephones and peripherals offer a wide range of configuratio and feature options. NovAtel's systems products offer a unique architecture that is easily expandable.

Marketing Activities: NovAtel's products are sold to telephone companies, radio common carriers, automotive manufacturers and authorized dealers and agents across Nor America and worldwide. United States cellular phone distribution is through NovAtel Carcom Inc. in Fort Worth, Texas, and United States and international systems sales are through NovAtel Communications Inc. in Atlanta, Georgia.

O

Odin Electronics Inc.

Bay 0, 1003 - 55 Avenue N.E.
Calgary, Alberta
T2E 6W1
(403) 295-0282 Fax: (403) 275-2094

Contact: Euan Hanchard, President

Company Founded: 1985

Products and Services: Odin Electronics provides contract electronic manufacturing services for the electronics industry. The company performs axial and radial component forming and de-reeling, transistor forming, component insertion and wave soldering up to 19 inches by 10 inches. Other capabilities include: surface mount prototype assembly, mixed technology soldering, wire and tubing cutting, cable assemblies and mechanical assembly.

Marketing Activities: Products and services are marketed to electronics manufacturers, oil and gas companies, utilities and other companies lacking the necessary facilities or manpower.

Oler Electronics Ltd.

6407 - 89 Avenue
Edmonton, Alberta
T6B 2G5
(403) 465-3593

Contact: Ken Oler, President

Company Founded: 1982

Products and Services: Oler Electronics specializes in the design and implementation of custom industrial electronic circuits usually utilizing a single-chip microcontroller. Services include consultation, prototype production and testing, and complete manufacturing. The company is experienced in downhole well instrumentation, moisture monitoring of granular materials such as grain, and grain dryer controllers. The firm's experience in the instrumentation industry is applicable to most areas of industrial and process control.

Omara Systems

10621 - 172 Street
Edmonton, Alberta
T5S 1P1
(403) 486-2252 Fax: (403) 484-4489

Contact: Robert Holmes, Division Manager

Company Founded: 1985

Products and Services: Omara Systems manufactures electronic industrial controls for monitoring equipment, and designs, develops and manufactures heat tracing control and monitoring equipment.

Marketing Activities: The company markets its products and services to the petroleum and petrochemical industries.

P

Palco Telecom Inc.

7825 Flint Road
Calgary, Alberta
T2H 1G3
(403) 255-4481 Fax: (403) 259-0101

Contact: W.H. Teppler, President

Company Founded: 1967

Products and Services: Palco Telecom provides quality testing, repair and refurbishing of telecommunication and computer-related equipment, specializing in printed circuit board fault diagnosis and repair. The company utilizes its proprietary WB-2000 PlasticReflow System™ for refurbishing plastic parts and is concentrating on the development of enhanced software-controlled, automatic test procedures for the repair of printed circuit boards and components.

Marketing Activities: The company provides services to telephone companies, interconnect companies and OEMs across Canada and the United States.

Pelorus Navigation Systems Inc.

#202, 575 Palmer Road N.E.
Calgary, Alberta
T2E 7G4
(403) 250-9377 Fax: (403) 291-9123

Contact: Edward G. Fitzhenry, President

Company Founded: 1983

Products and Services: Pelorus Navigation develops, manufactures, installs and maintains navigational and meteorological systems for airports. Other services include: electronic contract manufacturing, PCB assembly, cable and wiring harness assembly and mechanical assembly for electronic equipment. An international centre of excellence for Distance Measuring Equipment (DME), Pelorus offers a full line of systems for both enroute and terminal navigation. The Pelorus precision DME is a state-of-the-art system for co-location with Microwave Landing Systems (MLS).

Quality management is the central element of the company's philosophy, design and manufacturing operations, all of which conform to CSA Standard CAN3-Z299.1 and ISO 9001. The company's R&D activities focus on radio frequency (RF) electronics in the microwave range. Engineering services are available for sub-contract work.

Marketing Activities: Products and services are marketed internationally to civil aviation and national defence clients. The company's products meet International Civil Aviation Organization standards and are certified by regulatory authorities world-wide.

Pembina Controls Ltd.

4248 - 93 Street
Edmonton, Alberta
T5E 5P5
(403) 463-4040 Fax: (403) 461-0955

Contact: John H. Janzen, President

Company Founded: 1964

Products and Services: Pembina Controls designs and manufactures instrument panels and LACT (Liquid Automatic Custody Transfer) systems. It also provides measurement consulting services, meter proving and calibration, and contract instrumentation for construction, start-up and maintenance.

Marketing Activities: Products and services are marketed to oil and gas, pipeline transmission and pulp and paper industries.

Petronics Consulting Ltd.

#109, 5621 - 11 Street N.E.
Calgary, Alberta
T2E 6Z7
(403) 295-8801 Fax: (403) 250-3445

Contact: Jerry Wong, General Manager

Company Founded: 1979

Products and Services: Petronics researches, develops and manufactures automatic chemical-injection systems, drilling monitoring devices (drilling fluids monitors), corrosion preventive chemicals and drill pipe conversion analysis for independent mud companies.

Marketing Activities: The products and services are sold to oil and gas drilling companies primarily in Alberta.

PLD Systems Ltd.

#1, 2023 - 2 Avenue S.E.
Calgary, Alberta
T2E 6K1
(403) 248-3444 Fax: (403) 248-3668

Contact: Keith Brown, General Manager

Company Founded: 1986

Products and Services: The company designs and manufactures electronic and digital communication accessories for the land mobile industry. Current products include automated passenger counting systems, vehicle tracking systems, and digital dispatch and fleet management systems.

Marketing Activities: Products and services are primarily marketed to urban transit operators and private fleet operators and to government agencies.

Profit-Air Engineered Systems Ltd.

5521 - 92 Street
Edmonton, Alberta
T6E 3A4
(403) 434-1600 Fax: (403) 437-7470

Contact: Barbara Steckly, General Manager

Company Founded: 1978

Products and Services: Profit-air manufactures ventilation equipment for high-density livestock barns, including an actuator and three electronic controls: Computemp, an electronic thermostat; V-Speed, a variable speed fan control; and Compucool, an electronic livestock sprinkler cooling system.

Marketing Activities: Products and services are marketed to livestock producers.

PSI Circuits Inc.

#7, 2925 - 10 Avenue N.E.
Calgary, Alberta
T2A 5L4
(403) 273-9896 Fax: (403) 248-7645

Contact: Tom Maly, President

Company Founded: 1985

Products and Services: The company manufactures single, double-sided and multilayer printed circuit boards made with epoxy-glass, polyimide-glass, or a teflon substrate.

Marketing Activities: PSI Circuits markets its products and services to the communications industry.

Pulsearch Navigation Systems

A Division of Nowsco
700 - 10201 Southport Road S.W.
Calgary, Alberta
T2W 4X9
(403) 259-8560 Fax: (403) 255-6637

Contact: James F. McLellan, Manager, Navigation Systems

Company Founded: 1988

Products and Services: Pulsearch Navigation Systems designs, manufactures and installs equipment for mobile management fleet systems and integrated navigation systems. Global Positioning Satellite (GPS) sensors are integrated from various other manufacturers with the company's own manufactured boards and custom software. Systems are designed to integrate with existing cellular, UHF and VHF communications systems. R&D by the company has also resulted in the Geopig for pipeline inspection.

Marketing Activities: Products and services are marketed globally to the resource exploration, refining and communication sectors, manufacturing industries and to government.

Q

Q - Tron Limited

3855 - 64 Avenue S.E.
Calgary, Alberta
T2C 2V5
(403) 279-0805 Fax: (403) 236-2555

Contact: Virgil A. Smith, Controller

Company Founded: 1974

Products and Services: Q-Tron develops microprocessor-based systems for railway and industrial control and data processing applications. At present, Q-Tron has completed the design and production of microprocessor-based equipment including: a digital locomotive speedometer, a digital event recorder, a remote temperature sensor and recording system, a locomotive crew alert system, a locomotive cooling fan control system and a microprocessor-based locomotive control and wheel slip system.

Q-Tron is planning more advanced microprocessor systems and will continue to review and improve existing products as well as provide expanded services to its clients. In addition, the company has just completed expanding its facilities which now include: R&D, PCB assembly, environmental testing, sheet metal fabrication, injection moulding and cable manufacturing.

Marketing Activities: The main area of activity include: railway products, oil and gas products and industrial use products.

R

Raffin Electronic Co. Ltd.

5539 - 1 Street S.E.
Calgary, Alberta
T2H 1H9
(403) 252-7551 Fax: (403) 252-8436

Contact: Lawrence Raffin, General Manager

Company Founded: 1956

Products and Services: Raffin Electronic manufactures custom- designed medium voltage switchgear and industrial control equipment. The company also provides electrical contracting.

Marketing Activities: Products and services are marketed to the mining, oil and gas industries and to electrical utilities.

Research Electronics RESELCO Ltd.

16302 - 80 Avenue
Edmonton, Alberta
T5R 3M6
(403) 489-6207

Contact: Peter Noel, President

Company Founded: 1965

Products and Services: The company performs quantum engineering, and R&D in the oilfield and electrical energy.

Marketing Activities: Research Electronics RESELCO markets its products and services to the oil and electrical energy industries.

Rosemount Instruments Ltd.

808 - 55 Avenue N.E.
Calgary, Alberta
T2E 6Y4
(403) 275-8400 Fax: (403) 275-4331

Contact: Jim Lamb, Marketing Manager

Company Founded: 1972

Products and Services: Rosemount is recognized as a leader in the design, manufacture and marketing of precision process-control instrumentation. Serving the Canadian and export markets, the head office and assembly plant are located in Calgary. Rosemount calibrates pressure transmitters, temperature transmitters, pH and conductivity transmitters, alarm monitors and magnetic flowmeters and flowtubes. The company also handles sales, service and distribution of products from Rosemount's sister divisions including: Kay-Ray/Sensall, Micro Motion, Rosemount Inc., Brooks and Rosemount Analytical.

Marketing Activities: Products and services are marketed to the petroleum, pulp and paper, chemical, power and metals industries. New market opportunities in the food and beverage, water and waste industry are increasing.

Royal Telecom Inc.

7007 - 5th Street S.E.
Calgary, Alberta
T2H 2G2
(403) 299-1299 Fax: (403) 299-1280

Contact: Ron Wain, Director of Operations

Company Founded: 1987

Products and Services: Royal Telecom manufactures a variety of cordless telephones, in addition to providing services in graphic design and technical writing for the electronics industry.

Marketing Activities: The company markets its products globally to telephone companies.

RTS Electronics Manufacturing

10848 - 214 Street
PO Box 7 (Winterburn)
Edmonton, Alberta
T0E 2N0
(403) 447-4189 Fax: (403) 447-4248

Contact: Art Gaber

Company Founded: 1981

Products and Services: RTS is a major Canadian manufacturer of cathodic-protection rectifiers with a solid presence in the corrosion-prevention industry. Relying on its in-house technology and design capability, RTS also manufactures custom power supplies. The firm stocks parts and has repair and test facilities for all makes of cathodic rectifiers. Its transformer winding department supplies custom-made transformers for rectifiers and other customer requirements.

Marketing Activities: Products and services are marketed to the oil and gas and transportation industries and to corrosion consulting firms.

Russell Technologies Inc.

4909 - 75 Avenue
Edmonton, Alberta
T6B 2S3
(403) 469-4461 Fax: (403) 462-9378

Contact: Jim Yukes, Sales Representative

Company Founded: 1972

Products and Services: Russell Technologies manufactures the RadAlarm series of personal radiation meters and monitors and the Ferroscope system used for determining material loss due to corrosion or erosion in ferromagnetic tubing. The Ferroscope system utilizes the remote field eddy current (RFEC) technique for fast, accurate evaluation of boiler, high pressure heater and process heat exchanger tubing. Pipeline pigging services are available for 4" ID flowlines with a new, field-tested magnetic flux leakage "intelligent" pig.

Marketing Activities: Russell provides equipment or services world wide for non-destructive testing (NDT) in power plants, petro-chemical plants and other industrial, commercial and institutional settings.

S

S.A.L. Engineering and Software Ltd.

#140, 6815 - 8 Street N.E.
Calgary, Alberta
T2E 7H7
(403) 274-8005 Fax: (403) 295-0732

Contact: Krystyna Lukasiewicz, Managing Director

Company Founded: 1984

Products and Services: The company manufactures stress measurement equipment and software related to oil and gas production. LASTRAN (Laser Stress Analyzer) measures strains in structures and materials and automatically produces results. SRPUMP (Sucker Rod Pumping Systems Software) is used for the design, optimization and analysis of sucker rod strings. The company also performs R&D activities.

Marketing Activities: Products and services are marketed to the oil and gas industries, engineering consultants and industrial research laboratories.

Seischron Systems Inc.

#1070, 521 - 3 Avenue S.W.
Calgary, Alberta
T2P 3T3
(403) 262-6883 Fax: (403) 233-8304

Contact: Ken Davis, President

Company Founded: 1983

Products and Services: Seischron Systems has prototyped a large- document (4 ft X 4 ft) optical-color scanner system, and is currently seeking equity investment to commercialize the products. Considerable software has also been developed for the precise measurement of seismic reflection times, hand-colored by a geophysical interpreter on a paper display of a processed seismic section. With additional software development, the system will also be suitable for the conversion of images on any hardcopy document (colored or black & white) to electronic format.

Marketing Activities: Products and services will be marketed globally to oil and gas exploration companies and government agencies. As additional product applications are developed, target markets will include production departments of petroleum companies, engineering and architectural firms, graphics industries, cartographic services and possible medical services.

Sherrex Systems Limited

4196 - 93 Street
Edmonton, Alberta
T6E 5P5
(403) 462-4085 Fax: (403) 450-8369

Contact: Doug Mogg, Sales Manager

Company Founded: 1980

Products and Services: Sherrex has developed and manufactured more than 50 high technology products including: building/process controls, remote terminal unit (RTU) SCADA systems hardware, specialized instrumentation, industrial fibre-optic communication systems, smart industrial keyboards, dual computer switch over units, flow totalizers/computers, and EPROM programmers. Sherrex also provides fibre-optic communications products and industrial fibre optic systems including design, construction and installation services.

Marketing Activities: The company markets its products and services to the petrochemical, energy management, pipeline, oil and gas, cement, communications, electric power distributors, pollution monitoring, data processing, and secondary industries.

Siemens Electric Limited

9404 - 41 Avenue
Edmonton, Alberta
T6E 6G8
(403) 450-6762 Fax: (403) 450-6553

Contact: Ernie Mortemore, Area Manager

Company Founded: 1847

Products and Services: Siemens manufactures motor control centres, switchboards, panelboards, starters and switchgear for the electrical industry.

Marketing Activities: Products and services are marketed for use in residential, commercial, industrial areas and by utility companies.

SIGMA Measurement & Process Control Ltd.

#144, 6815 - 8 Street N.E.
Calgary, Alberta
T2E 7H7
(403) 295-8880 Fax: (403) 295-0732

Contact: Neat Tuot, President

Company Founded: 1987

Products and Services: The company manufacturers SIGMACOR electronic flow volume correctors, chartless pressure and/or temperature recorders, SIGMA flow computers and WATCHDOG smart remote terminal units (RTU) for SCADA systems. These units can communicate with any computers via modems and/or serial communication ports.

Marketing Activities: Products and services are marketed to oil and gas, and process industries.

SMART Technologies Inc.

#599, 240 - 11th Avenue S.W.
Calgary, Alberta
T2R OC3
(403) 233-9333 Fax: (403) 262-3524

Contact: David A. Martin, President

Company Founded: 1987

Products and Services: SMART Technologies develops and manufactures a computer/communications document conferencing product known as the SMART 2000 Conferencing System. The product uses standard telephone network connections and an industry standard PC to deliver interactive computer graphics and written information to people in geographically dispersed locations. Users of SMART 2000 can work with Windows 3.0 applications remotely to draft documents, present information, mark-up and change computer generated images, and save and print the results.

Marketing Activities: SMART sells its products through a network of computer/communication specialty dealers in Canada and the United States, and through distributors internationally.

Southern Telecommunications Ltd.

#101, 10464 - 176 Street
Edmonton, Alberta
T5S 1L3
(403) 484-8760 Fax: (403) 486-0659

Contact: Wayne Hamilton, President

Company Founded: 1984

Products and Services: Southern Telecommunications designs, manufactures and distributes telecommunication (telephone) products. Telephone products use extensive surface-mount technology which permits the use of assembly lines in Alberta. Products are state-of-the-art in reliability and performance, designed to meet the rigid specifications of the commercial grade rental and outright sale market. Flexible manufacturing and design allow for changes to be made so that products can meet technical specifications of foreign telephone companies. R&D activities are performed by inhouse engineering staff and the company is now considering contract work for companies which have expressed an interest in having their products re-designed and manufactured in North America.

Marketing Activities: Products are marketed through the Edmonton office and in the United States through a subsidiary office and warehouse facility. The company targets telephone operating and interconnect companies, government communication divisions and industry.

Spartan Controls Ltd.

2810 - 12 Street N.E.
Calgary, Alberta
T2E 7P7
(403) 250-7600 Fax: (403) 250-9341

Contact: Dale Moore, Vice President

Company Founded: 1963

Products and Services: Spartan Controls is a manufacturers representative for Fisher Controls and related process automation equipment. The company's services include: application sales, project engineering, system integration of the Fisher Provox Distributed Control, Fisher Netrex, PCT SCADA and programmable logic controller (PLC) systems. Full on-site engineering support and maintenance services are available 24 hours per day, 7 days per week.

Marketing Activities: The firm markets process automation products and services to petrochemical, oil and gas, pulp and paper, mining and water treatment industries.

Spartech Manufacturing Ltd.

2860 - 12 Street N.E.
Calgary, Alberta
T2E 7P7
(403) 250-5454 Fax: (403) 291-2795

Contact: Terry Dickman, Sales Manager

Company Founded: 1971

Products and Services: Spartech Manufacturing provides custom manufacturing for electronics, as well as electrical and pneumatic hazardous location control panels for the oil and gas, petrochemical, pulp and paper and mining sectors.

Marketing Activities: The company markets its products globally.

SPEC Instruments Ltd.

#123, 3553 - 31 Street N.W.
Calgary, Alberta
T2L 2K7
(403) 282-9676 Fax: (403) 282-1238

Contact: Dr. Richard Kudynski, President

Company Founded: 1988

Products and Services: The company manufactures magnetic circular dichroism (MCD) spectrometers based on a licensing agreement with Carleton University in Ottawa. The spectrometer detects nitrogen and trace metals in petroleum products and coal slurries of fuels. The company production line includes magnetic resonance desk-top spectrometers (electron paramagnetic and nuclear magnetic resonance) and NMR teslameters for the highest accuracy measurements of magnetic field strength.

Marketing Activities: Products and services are marketed to university and industrial laboratories in North America and Europe.

Sur-Flo Meters & Controls Ltd.

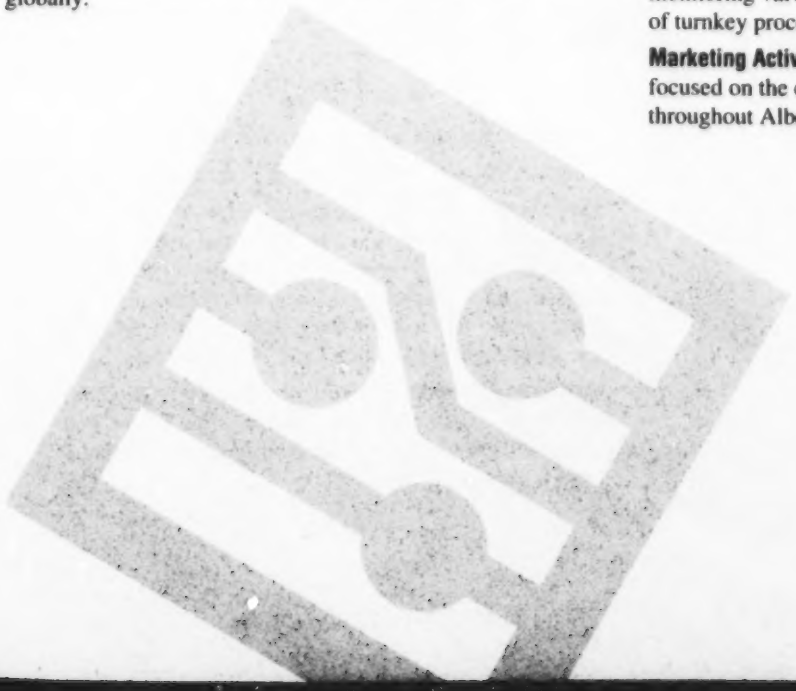
5103 - 62 Street
Lloydminister, Alberta
T9V 2G3
(403) 875-5705 Fax: (403) 875-9030

Contact: Lloyd Nelson, President

Company Founded: 1979

Products and Services: Sur-Flo manufactures complete measuring and monitoring instrumentation for fluids with a complete line of associated electronic equipment. The company also manufactures pressure fluid control and monitoring valves. Its services also offer design and assembly of turnkey process control and monitoring systems.

Marketing Activities: The company's marketing activities are focused on the oil and gas and petrochemical industries throughout Alberta and Canada.



Syngen Industrial Control

#206B, 5904 - 50 Street
Leduc, Alberta
T9E 6J3
(403) 986-1203 Fax: (403) 986-8083

Contact: Ken G. Brown, President
R. Jim May, Vice President, Business Development

Company Founded: 1988

Products and Services: Syngen provides a variety of industrial automation tools and engineering services and is active in both the development of advanced control software, as well as the manufacture of new electronic control products. The firm's industrialized GRAF11 Engine provides the basis for a networkable DIN rail-mounted "open system" control strategy. Controller-resident software routines allow for real-time execution of high level GRAFCET-like control programs which are easily developed using the GRAF11 visual control compiler software.

Other board-level embedded control products provide building block solutions for customers who are closer to the electronics development process. Services available include CAD-based custom design and manufacturing of specialized electronics as well as Macintosh software development in relation to engineering, manufacturing, SCADA or control applications.

Marketing Activities: Products and services are being targeted to manufacturing, solar and wind technology, recycling technology, research and development, oil and gas, plant maintenance and agricultural sectors.

T

Techworth Design Ltd.

PO Box 3652, Station B
Calgary, Alberta
T2M 4M4
(403) 273-8122

Contact: Craig S. Reilly, President

Company Founded: 1984

Products and Services: Techworth Design provides custom design and manufacturing of prototypes primarily for the medical sector. The company designs, trials and manufactures assistive equipment for rehabilitation of physical injuries including: custom wheelchair controls, specialized switches for environmental control (TVs, radios, power doors), computer modifications and adaptations, production and/or modification of communicators, dressing/toiletry and kitchen gadgets.

Techworth's robotic and automation skills are applied in industrial applications when there is a need for automation or its upgrading. Interfacing humans with equipment is a major strength of the company, as well as service, high speed automation maintenance and modification, computer assembly and testing, equipment overhaul, precision instrument design and repair, and wheelchair elevator and lift modifications.

Marketing Activities: The company markets its products and services to government agencies, health institutions and the public.

Telematic Controls Inc.

#2, 9804 - 47 Avenue
Edmonton, Alberta
T6E 5P3
(403) 436-0511 Fax: (403) 436-9039

Contact: Brian McClelland, General Manager

Company Founded: 1979

Products and Services: The company manufactures thermally-actuated flow and level switches and is a distributor for air and gas mass flowmeters, ultrasonic liquid flowmeters, pressure and temperature switches, transmitters, isolators and alarm relays, data acquisition systems, digital panel meters, electro-pneumatic transducers and PID controllers.

Marketing Activities: The company markets its products and services to all industrial users including: the oil and gas, brewing, dairy, manufacturing, pulp and paper, mining and process control industries.

Terra Linda Canada

#600, 510 - 5 Street S.W.
Calgary, Alberta
T2P 3S2
(403) 262-2170 Fax: (403) 262-3549

Contact: Mr. James De Boer, Chief Operating Officer

Company Founded: 1988

Products and Services: Terra Linda Canada manufactures the "Omniphone", a patented three-component geophone that incorporates a polarization filter which removes ground roll, wind noise and other surface-coupled noises. The product allows three-component seismic data to be sent back-to-back on a single channel.

Marketing Activities: Products and services are marketed globally to the geophysical industry.

Thermo Electric (Canada) Limited

9655 45 Avenue
Edmonton, Alberta
T6E 5Z8
(403) 436-7832 Fax: (403) 437-1315

Contact: Ms. Shari Dahlman, Supervisor

Company Founded: 1953

Products and Services: Thermo Electric manufactures and supplies instrumentation, thermocouples, RTDs, instrumentation wire and cable and connectors as well as engineering and calibration services to government agencies, industry and research institutions.

Marketing Activities: The company markets its products and services to defence agencies, oil and gas, pulp and paper, and food industries, as well as medical and research laboratories.

Time Tronics Inc.

Box 580
Pincher Creek, Alberta
T0K 1W0
(403) 627-5556 Fax: (403) 627-5557

Contact: Eli D. Walter, President

Company Founded: 1987

Products and Services: Time Tronics produces water level controls primarily for livestock waterers; monitoring systems for seed equipment, air seeders, air drills, hoe and disk drills; and medical alert units for the elderly and handicapped. It performs in-house R&D and has full start-to-finish production capabilities.

Marketing Activities: The company markets its agriculturally-related products to OEMs, dealers and farmers. Medical alert equipment is marketed to societies specializing in providing such services.

Trinity Electronics Systems Ltd.

10708 - 181 Street
Edmonton, Alberta
T5S 1K8
(403) 489-3199 Fax: (403) 489-2258

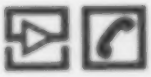
Contact: Larry Kelly, General Manager

Company Founded: 1984

Products and Services: Trinity Electronics is a custom manufacturer of electronic equipment and assemblies. Products include an intrinsically-safe intercom system, instrumentation for mining vehicles, lighting control systems, electronic displays/exhibits and several custom audio products. Trinity supplies custom-designed products to OEMs as well as retrofit products for industrial customers.

Marketing Activities: Products and services are marketed directly to clients and through distributors. Traffic products have been sold into the United States through Alberta-based distributors. Instrumentation is marketed to Germany and Australia and display products are marketed across Canada and the United States. Trinity also markets several software products and PC-based PLD programmers.

Trison Instruments Ltd.



485 Sioux Road
Sherwood Park, Alberta
T8A 4H2
(403) 467-1644 Fax: (403) 467-2030

Contact: Leo Tachuk, President

Company Founded: 1969

Products and Services: Trison Instruments develops, designs and manufactures a program control unit for use in programming school time clocks and runway lighting control equipment. Trison also manufactures a party-line converter which provides subscribers with privacy and a range of features not previously available (extension phones, answering machines, designer phones and computer modems).

Marketing Activities: The company markets its products and services to telephone and fire alarm companies, the federal government and airports.

Tycor International Inc.

6107 - 6 Street S.E.
Calgary, Alberta
T2H 1L9
(403) 259-3200 Fax: (403) 253-0663

Contact: Will Frey, C.E.O. and President

Company Founded: 1978

Products and Services: Tycor combines ongoing research and development with field expertise in the manufacture of power conditioning equipment. The company's product line includes: AC power line filters, uninterruptible power filters, regulating line filters and isolating line filters. Tycor power conditioning equipment provides computer-grade power for microprocessor based equipment to ensure reliability and efficient performance. The products incorporate finely tuned circuitry which removes all normal and common mode noise (EMI, RFI) while protecting against massive surges caused by lightning or power grid switching.

Tycor products also protect against the damage caused by brownouts, blackouts and harmonics. Typical applications for Tycor power conditioning equipment include computers, CAD/CAM and robotics, point-of-sale terminals, PLDs, and medical and military equipment. The company has implemented the NATO Standard A2AP.1 Quality Assurance System which is compatible with MIL Q9858 and H5208A and has been verified by application.

Marketing Activities: Tycor exports to Australia, New Zealand, Hong Kong, Singapore, Chile, Malaysia and the United States.

Tynetco Electronics Inc.

#414, 10357 - 109 Street
Edmonton, Alberta
T5J 1N3
(403) 420-6199 Fax: (403) 420-9033

#122, 1935 - 32 Ave. N.E.
Calgary, Alberta
T2E 7C8
(403) 250-3557 Fax: (403) 250-3560

Contact: Kevin Gainer, President

Company Founded: 1987

Products and Services: Tynetco Electronics services and repairs all IBM DOS-based computers, compatibles and peripherals. Full hardware service contracts, flexible blocks of service time and materials are services provided by Tynetco, as well as complete support, installation, and service of Novell Networks. Tynetco provides both local and remote dial-up support throughout the province of Alberta, and consultation for office automation and computer networking needs is available.

Marketing Activities: Products and services are marketed to small and large businesses such as: legal firms, accounting firms and general office environments.

U

Universal Power Corporation

#6, 1715 - 27 Avenue N.E.
Calgary, Alberta
T2E 7E1
(403) 250-3479 Fax: (403) 250-6711

Contact: Eric R. Gale, President

Company Founded: 1986

Products and Services: The company manufactures the Universal Power Regenerator (UPR), a line of power protection devices that continuously deliver sine wave AC power at 50, 60 or 400 Hz. The uninterruptible power regenerators become "on-line" uninterruptible power systems. These products are based on a proprietary ASIC developed in conjunction with the Alberta Microelectronic Centre (AMC). The company is also involved in printed circuit board design, prototype fabrication and manufacturing. Custom power electronics design services include sine wave inverters and power factor correction.

Marketing Activities: The company markets its products to the oil and gas sector, the military, industry and business.

Valmet Automation (Canada), Ltd.

#1, 6325 - 12th Street S.E.
Calgary, Alberta
T2H 2K1
(403) 253-8848 Fax: (403) 259-2926

Contact: Dave Jardine, Vice President
Larry Stack, Director of Marketing

Company Founded: 1973

Products and Services: Valmet Automation is a major supplier of automation systems with an installed base of over 300 systems. Fully staffed operations in both Calgary and Houston are dedicated to serving specific industries with automation products and services. Valmet offers two lines of control systems: the OASYS SCADA line of system products based on DEC, IBM or the Sun family of computers and work stations; and the Damatic product line, a distributed process control system which is a product of the parent company, Valmet. Both are fully proven products which employ industry standards such a UNIX, X-Windows and TCP/IP in fully distributed open architectures.

Valmet's remote terminal units (RTUs) are fully intelligent devices which can perform analog and digital sequence control strategies in a stand-alone mode. Designed with CMOS circuitry, the RTUs consume less than five watts of power and can operate in harsh environments. OASYS SCADA system users enjoy long- term hardware and software investment protection and continuing support from Valmet Automation. Services include not only hardware and software, but also special engineering, installation, commissioning training, and maintenance services.

Marketing Activities: Valmet markets its products and services to the oil and gas pipeline, water/waste water and electric utility industries on a world-wide basis.

VC Star Electronic Inc.

#14, 3740 - 27 Street N.E.
Calgary, Alberta
T1Y 5E2
(403) 291-2683 Fax: (403) 250-7587

Contact: Art Covey, Vice President & General Manager

Company Founded: 1986

Products and Services: The company manufactures VC STAR-3, a video cassette rental machine (VDM) which can rent tapes, accept returns and sell tapes automatically by interacting with a client's valid magnetic card (major credit card, bank card or membership card). The VC STAR-3 features state-of-the-art robotics integrated with artificial intelligence (AI). The unique "marquee" system allows all 192 selections to be viewed by the customer, 28 at a time, with each selection being represented by 3" x 5" photographs, text, etc.

The VC STAR-3 is designed to operate both in a stand-alone mode as well as networked in a group. In the group network, one or more machines communicate either in dial-up or multi-drop access with a host computer. This allows for remote operation and management of a multitude of VC STAR-3's, similar to a banking network. Comprehensive software enables the system manager to query, upload and download transactions, manage credit cards, compile statistics, examine inventory, produce bar codes and even perform ad hoc queries on the data base.

Marketing Activities: Products and services are marketed through distribution networks and franchising in southern California via an affiliate company, VC STAR (U.S.) Inc.

VisionSmart Inc.

#203, 5807 - 104 Street
Edmonton, Alberta
T6H 2K4
(403) 435-7082 Fax: (403) 436-0863

Contact: Mr. Dan Kenway, President

Company Founded: 1987

Products and Services: VisionSmart has removed a major bottleneck in Canada's most important export sector by developing an Industrial Supercomputer unmatched by any image processing system currently available in the world. Large, high-speed sawmills should be able to increase mill profitability by over one million dollars per year while increasing quality and consistency using the Grader-Optimizer System. VisionSmart's Industrial Supercomputer permits accurate, real-time computer processing of large volumes of information, benefitting industries which now rely on manual quality control/handling of their product, or whose processes are too fast to permit adequate product inspection/handling.

Marketing Activities: The company is actively pursuing global markets.

Vortex Microsystems Inc.

10010 - 107A Avenue
Edmonton, Alberta
T5H 4H8
(403) 493-8103 Fax: (403) 493-8199

Contact: Jim Bohmer, General Manager

Company Founded: 1987

Products and Services: Vortex Microsystems manufactures a line of control equipment used on oilfield pumping equipment. The products monitor and control oil wells to improve oil production, reduce downtime, and give more useful data to operators and field engineers. Products include: a stand-alone motor controller, a radio monitoring system for remote control of oil wells, and various data gathering and control relays.

Marketing Activities: The company markets its products in Canada, the United States, Indonesia, and various countries in South America and the Middle East.

VX Optronics Corp.

#625, 777 - 8 Avenue S.W.
Calgary, Alberta
T2P 3R5
(403) 233-2236 Fax: (403) 233-2249

Contact: Angus J. Tocher, President

Company Founded: 1989

Products and Services: VX Optronics develops electro-optical products for professional and recreational markets. Products in development include two electronic ranging and direction-ing binoculars for measuring distances, heights, magnetic bearings, angles, and areas.

Marketing Activities: The company is presently seeking to joint venture with a major partner for the manufacture and marketing of one or both of the first products. Marketing efforts also extend to potential military partners.

W

Westech Industrial Ltd.

5636 Burbank Crescent S.E.
Calgary, Alberta
T2H 1Z6
(403) 252-8803 Fax: (403) 253-6803

Contact: Ian Brodie, Electronic Sales Manager

Company Founded: 1966

Products and Services: Westech Industrial engineers and manufactures process-analytical systems for the oil and gas, pulp and paper and chemical industries. These systems are utilized for the optimization of industrial processes either on an information-only basis or integrated into a closed-loop control scheme. The company also offers continuous emission monitoring (CEM) systems designed to comply with the new stringent government regulations. CEM systems offer continuous surveillance and trending of SO_2, CO, CO_2, NO_2, NO fugitive emissions. Westech provides a complete software reporting package for easy acquisition and reporting of data in an industry-acceptable format.

Marketing Activities: Products and services are marketed to the oil, gas, chemical, mining, and pulp and paper industries.

Western Avionics

275 Palmer Road N.E.
Calgary, Alberta
T2E 7G4
(403) 250-2644 Fax: (403) 250-2622

Contact: Perry Wong, Project Development Co-ordinator

Company Founded: 1976

Products and Services: Western Avionics ranks as one of Canada's largest, modern and most diverse avionics facility. It repairs and installs an extensive variety of avionics in all categories of airframes. In addition to offering complete turnkey packages of runway navigational-aids, Western Avionics custom designs avionics for airborne applications. The R&D division has been credited with the formation and advancement of numerous specialized avionics products.

Requests from Canadian and American government resource agencies have resulted in the production of products such as: data collection systems used in airborne remote sensing, audio systems and water bomb control systems designed for airborne forest fire operations. The company is currently upgrading its quality assurance standards to AQAP 1 (less 207), to enhance its wire harness manufacturing division.

Marketing Activities: Products and services are distributed domestically and internationally to air transportation, and private and government resource agencies.

Western Instruments Inc.

Highway 794, Township Road 543
Villeneuve, Alberta
T8N 1M8
(403) 459-6720 Fax: (403) 459-7837

SALES OFFICE:
#100, 10411 - 178 Street
Edmonton, Alberta
T5S 1R5
(403) 484-2410 Fax: (403) 484-3306

Contact: Mark Pulyn-Iuk, Sales Manager

Company Founded: 1965

Products and Services: Western Instruments manufactures ultrasonic test systems for automatic welding (tube, pipe, rod, bars) which vary in magnitude from simple hand-held devices to fully-automated, computer-based, robotic in-plant installations. Western also performs contract R&D for procedures and equipment to facilitate automatic or less operator dependent testing.

Western Research

1313 - 44 Avenue N.E.
Calgary, Alberta
T2E 6L5
(403) 291-1313 Fax: (403) 291-1128

Contact: Al Niven, Technical Sales Representative

Company Founded: 1965

Products and Services: Western Research is a multi-disciplined engineering consulting and manufacturing company offering a variety of environmental and process control products and services to industry worldwide. The instrumentation group manufactures ultra-violet, photometric process analyzers for sulphur species analysis for process and regulatory control.

Western Research also provides consulting engineering services on emission control and emission impact, with expertise in the testing and optimization of sulphur recovery plants.

Marketing Activities: The company serves oil and gas, sulphur recover, pulp and paper, electric utilities and hazardous waste disposal industries, as well as government environmental departments.

Westinghouse Canada Inc.

3309 - 9 Street S.E.
Calgary, Alberta
T2G 3C1
(403) 243-8544 Fax: (403) 243-6377

Contact: Chris Charlton, Administration Manager

Company Founded: 1975 (in Calgary)

Products and Services: Westinghouse Canada is the largest Alberta manufacturer of switchgear and motor control products. It supplies distribution and control products to residential, construction and industrial markets in western Canada. Standard products include: moulded case circuit breakers, general purpose control and service entrance equipment. Assembled products include: panelboards, switchboards, automatic transfer switches, motor control centres and switchgear. The company's product application engineers provide custom designed systems. Technical sales representation is available to selected OEM clients.

Marketing Activities: All products are marketed through WESCO, the company's sales and distribution network.

Westronic Inc.

4525 Manilla Road S.E.
Calgary, Alberta
T2G 4B6
(403) 243-3335 Fax: (403) 243-1815

Contact: Ron Farquharson, Marketing Manager

Company Founded: 1980

Products and Services: Westronic designs, manufactures and supplies remote measurement and station automation equipment for the power utility industry worldwide. The company develops real-time software for device-to-device communications as well as substation automation. This software runs on innovatively designed microprocessor-based hardware tested to meet or exceed all major world standards (IEEE and IEC).

Marketing Activities: The company is recognized as a leading world supplier of remote terminal (RTU) equipment with a strong presence in the United States, Pacific Rim, United Kingdom and Canada and a growing presence in Europe, South America and China. A sister company in Perth, Australia serves Australia, the Middle East, Africa and India.

Williams Electronics Limited

17307 - 103 Avenue
Edmonton, Alberta
T5S 1J4
(403) 489-3882 Fax: (403) 486-4287

Contact: Ken Polanski, President

Company Founded: 1970

Products and Services: For the past 20 years, Williams Electronics has served the communication needs of major companies in oil and gas, lumbering, mining, transportation as well as governments. It now holds Canadian, American and Australian patents for the FMID™ (Facsimile Mobile Interface Data Device) with patents pending in ten European countries. The FMID™ interface device & Radiofax™ (manufactured locally) permits the transmission of facsimile hard copy via Group III fax machines and/or computer data, using two-way radio/radio telephones in either simplex, half duplex and full duplex.

Marketing Activities: The company is searching for marketing opportunities worldwide for the FMID for use as an interface to operate fax machines, credit card readers, electronic signs and computers over the airwaves from locations without of telephone land lines.

Willowglen Systems Ltd.

Willowglen Business Park
Manning Close N.E.
Calgary, Alberta
T2E 7N5
(403) 272-1800 Fax: (403) 272-2114

Contact: Fergus Byrne, President

Company Founded: 1980

Products and Services: Willowglen designs and manufactures turnkey SCADA systems, consisting of remote terminal units (RTUs) and master communication controllers (MCCs). It also provides software and project management and customer support for these systems. Willowglen has recently released its advanced SCADACOM Master Station package, developed around the full range of Sun Microsystems products.

Marketing Activities: Willowglen has effectively applied its standard SCADA system product to the oil and gas, water and wastewater, transportation, telecommunications, security and energy management industries. Willowglen systems have been installed in Canada, Singapore, Malaysia, Switzerland, USSR, China, Italy, Yugoslavia and the United States.

WJF Instrumentation (1990) Ltd.

Bay 5, 3610 - 29 Street N.E.
Calgary, Alberta
T1Y 5Z7
(403) 291-5570 Fax: (403) 291-3714

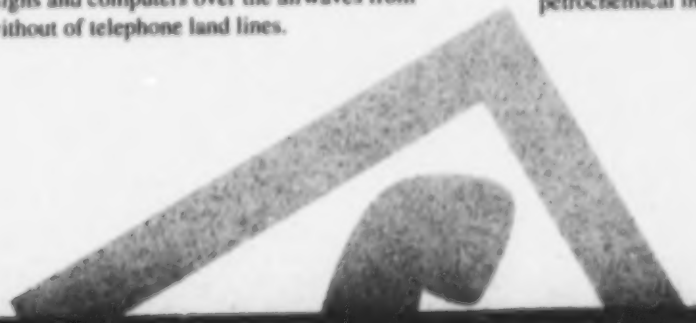
Contact: W.J. (Jack) Fletcher, President

Company Founded: 1984

Products and Services: WJF Instrumentation specializes in providing analytical instrumentation for process control and environmental monitoring application. The company is currently involved with the production of corrosion proof pH meters and electrodes for on-line chemical analysis in harsh environments.

The company supplies analytical instrumentation for leak detection of underground fuel storage tanks; mercury monitoring; trace analysis of chlorine, ozone, H_2S in water and air; waste gas scrubber controllers for fibre-optic deposition manufacturing; and rendering plant odor control.

Marketing Activities: WJF Instrumentation focuses its marketing efforts on the pulp and paper, mining and petrochemical industries throughout western Canada.



Z.I. Probes, Inc.

#217, Advanced Technology Centre
9650 - 20 Avenue
Edmonton, Alberta
T6N 1G1
(403) 462-3400 Fax: (403) 463-1567

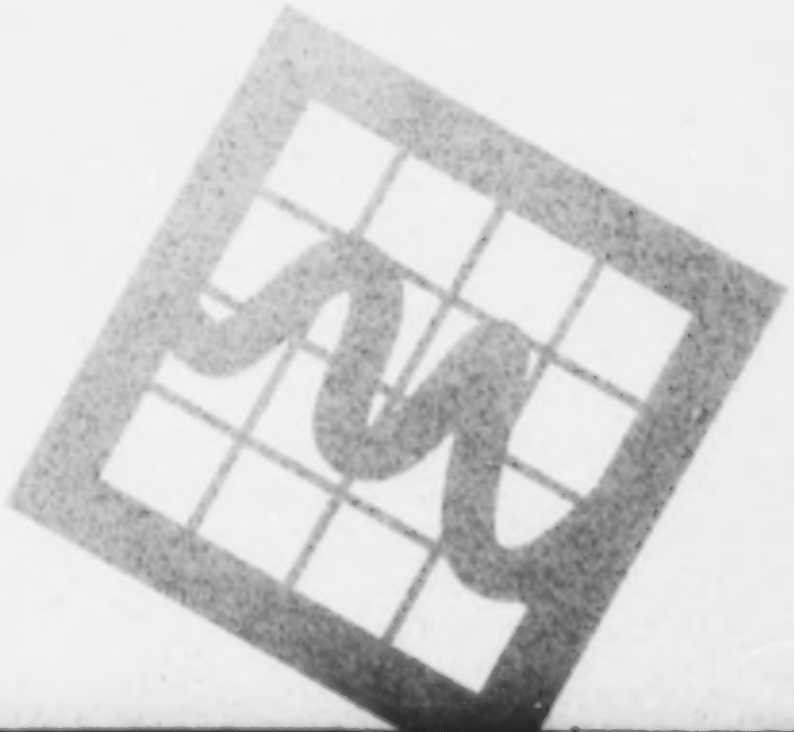
Contact: Don Clark, General Manager

Company Founded: 1987

Products and Services: The company manufactures downhole electronic pressure/temperature memory probes which achieve levels of performance in accuracy, resolution, programming, power consumption and reliability that were previously considered unattainable. The advanced design, development and manufacturing of the probe is done exclusively in-house by highly experienced and trained staff.

Operation of the probe is extremely versatile and user friendly. Because the probe is completely assembled, pre-programmed, and pressure activated, there is no need for connecting battery packs, and recording time and dates. Furthermore, the powerful software gives the user a large selection of options in obtaining true quality data of reservoirs.

Marketing Activities: Products and services are sold/rented to producers and service companies in the oil and gas industry.



CATEGORIES OF PRODUCTS AND SERVICES

Aerospace Electronics

Airborne Precision Instruments Ltd.
AMTEK Testware
Dawson Engineering & Communications Inc.
Edo Canada Ltd.
GSR Technologies Ltd.
Intera Information Technologies Corporation
Itres Research Ltd.
Pelorus Navigation Systems Inc.
Western Avionics

Agricultural Electronics

Baker Electronic Enterprises Inc.
Cool Grain Inc.
Oler Electronics Ltd.
Profit-Air Engineered Systems Ltd.
Time Tronics Inc.

Computing Equipment

Alphatel Systems
AMTEK Testware
Calta Computer Systems Ltd.
Computer Environment Solutions
Identity Systems International Inc.
INSTAR Corporation
Kern Electronics Inc.
Madenta Communications Inc.
MENTOR Engineering Inc.
Multitech Electronics Inc.
Myrias Computer Technologies Inc.
New West Controls Canada Inc.
Seischron Systems Inc.
SMART Technologies Inc.
Syngen Industrial Control
Tynetco Electronics Inc.
VisionSmart Inc.

Control Systems

A. Comeau & Associates Ltd.
Aaron Controls
ADE Electronics Inc.
Ashton Electronic Industries Ltd.
Babco Electric & Engineering Ltd.
Butler Micro Systems Ltd.
Calta Computer Systems Ltd.
Canadian Communications Technologies Inc.
Cantech Systems Ltd.
Comptronic Devices Ltd.
Cridland Design Inc.
DATAP Systems
DATEK Industries Ltd.
Dycor Industrial Research Ltd.
EEE Tec Digital Design Limited
Hilton Electronics Manufacturing
Hoyme Manufacturing Inc.
Instrument Service Laboratories Ltd.
MegaSys Computer Technologies
MENTOR Engineering Inc.
Micro-Watt Control Devices Ltd.
Neotrol Technical Services Ltd.
New West Controls Canada Inc.
Oler Electronics Ltd.
Omura Systems
Q - Tron Limited
Raffin Electronic Co. Ltd.
Sherrex Systems Limited
Siemens Electric Limited
SIGMA Measurement & Process Control Ltd.
Spartan Controls Ltd.
Syngen Industrial Control
Telematic Controls Inc.
Tinson Instruments Ltd.
Valmet Automation (Canada) Ltd.
VisionSmart Inc.
Vortex Microsystems Inc.
Western Research
Westinghouse Canada Inc.
Westronic Inc.
Willowglen Systems Ltd.

Electronic Subassembly

Alberta Computer Cable Inc.
Alberta Printed Circuits Ltd.
Babco Electric & Engineering Ltd.
C.R. Electronics Limited
Cantech Systems Ltd.
Claymore Industries
Computronix Industrial Electronics Inc.
DATEK Industries Ltd.
DSK Canada Ltd.
Eddy Electronics Manufacturing Ltd.
Hilton Electronics Manufacturing
Inventronics Ltd.
LSI Logic Corporation of
MICROLOGIC Limited
Multitech Electronics Inc.
Odin Electronics Inc.
PSI Circuits Inc.
Palco Telecom Inc.
Q - Tron Limited
RTS Electronics Manufacturing
Spartech Manufacturing Ltd.
Trinity Electronics Systems Ltd.

Engineering Design

A. Comeau & Associates Ltd.
Aaron Controls
ADE Electronics Inc.
Austec Electronic Systems Ltd.
Barnett Engineering Ltd.
Bartronics (1972) Ltd.
Bentek Corporation
Biomech Designs Ltd.
Computronix Industrial Electronics Inc.
Continental Laboratories (1985) Ltd.
Cridland Design Inc.
Cytronic Technologies Inc.
DATEK Industries Ltd.
Dawson Engineering & Communications Inc.
Dycor Industrial Research Ltd.
EEE Tee Digital Design Limited
FitzPatrick Engineering Ltd.
Genesis Communication Inc.
Hartman Technica
Hayley Industrial Electronics Ltd.
Innovage Microsystems Inc.
Kern Electronics Inc.
Language Systems Design, Inc.
LSI Logic Corporation of
MICROLOGIC Limited
Research Electronics RESELCO Ltd.
Universal Power Corporation

Instrumentation

Alltemp Sensors Inc.
Athabasca Research Corporation Ltd.
Aurora Bar Code Technologies Ltd.
B & W Technologies Ltd.
BatteryPRO Centres Inc.
Beta Monitors & Controls Ltd.
B.R.E.M. Consulting Services Ltd.
Bruel & Kjaer Canada Ltd.
Campbell Scientific Canada Corp.
Chart Information Systems Ltd.
Chimo Equipment Ltd.
Continental Laboratories (1985) Ltd.
Cytronic Technologies Inc.
DSK Canada Ltd.
Dycor Industrial Research Ltd.
Energy Control Inc.
Galvanic Analytical Systems Ltd.
Gastech Instruments Canada Ltd.
Geophysical Research Corporation Ltd.
Gray Instruments Inc.
Harding Instrument Company Ltd.
IDACOM Telecommunications
Innovage Microsystems Inc.
Instrument Service Laboratories Ltd.
Itres Research Ltd.
ITT Barton Instruments
Lakewood Systems Ltd.
Mark Products
McAllister Petroleum Services Ltd.
MSR Magmeter Manufacturing Ltd.
Neotrol Technical Services Ltd.
Oler Electronics Ltd.
Pembina Controls Ltd.
Petronics Consulting Ltd.
Rosemount Instruments Ltd.
Russell Technologies Inc.
S.A.L. ENGINEERING AND SOFTWARE LTD.
Sherrex Systems Limited
SIGMA Measurement & Process Control Ltd.
SPEC Instruments Ltd.
Sur-Flo Meters & Controls Ltd.
Telematic Controls Inc.
Terra Linda Canada
Thermo Electric (Canada) Limited
Trinity Electronics Systems Ltd.
VC Star Electronic Inc.
VisionSmart Inc.
Westech Industrial Ltd.
Western Instruments, Inc.
Western Research
WJF Instrumentation (1990) Ltd.
Z.I. Probes, Inc.

Medical Electronics

Athabasca Research Corporation Ltd.
Bentek Corporation
Biomech Designs Ltd.
Comptronic Devices Ltd.
Identity Systems International Inc.
Innovex Ltd.
Madenta Communications Inc.
Techworth Design Ltd.
Time Tronics Inc.

Photonics

Boreal Laser Inc.
B.R.E.M. Consulting Services Ltd.
Dawson Engineering & Communications Inc.
Falcon Inspection Services
GSR Technologies Ltd.
Image Inspection Services Ltd.
Itres Research Ltd.
VX Optronics Corp.

Power Systems

BatteryPRO Centres Inc.
Bertonee Marketing Inc.
Canterra Electronics International Inc.
Computer Environment Solutions
Global Thermoelectric Inc.
Hayley Industrial Electronics Ltd.
Invertor Technology
Raffin Electronic Co. Ltd.
RTS Electronics Manufacturing
Tycor International Inc.
Universal Power Corporation

Telecommunications

AGT Limited
Alta Telecom International Ltd. (ATI)
Austec Electronic Systems Ltd.
Barnett Engineering Ltd.
Bartronics (1972) Ltd.
Cache Components Corp.
Calgary Controls Ltd.
Canadian Communications Technologies Inc.
Celcom Electronics Ltd.
Circa Telecommunications Inc.
DATAP Systems
ED TEL
Genesis Communication Inc.
Harding Instrument Company Ltd.
IDACOM Telecommunications
Infosat Telecommunications Ltd.
Interalia Inc.
Karlen Electronic Systems (1981) Ltd.
MCK Telecommunications Inc.
MegaSys Computer Technologies
Mobiltex Data Ltd.
Newco Safety Tel Inc.
Northern Telecom
NovAtel Communication Ltd.
Palco Telecom Inc.
PLD Systems Ltd.
Pulsearch Navigation Systems
Royal Telecom Inc.
Sherrex Systems Limited
SMART Technologies Inc.
Southern Telecommunications Ltd.
Trison Instruments Ltd.
Williams Electronics Limited

Transportation Electronics

Access Technology Inc.
Alternative Fuel Systems Inc.
Athabasca Research Corporation Ltd.
Mega Technical Industries Ltd.
Mobiltex Data Ltd.
PLD Systems Ltd.
Pulsearch Navigation Systems
Q - Tron Limited